



**PROPOSAL FOR
 PROFESSIONAL SERVICES
 #02 – ENGINEERING SERVICES – SOLID WASTE
 Contract Term February 12, 2025 to February 10, 2025**

January 25, 2024

SUBMITTED TO:
 Morris County Municipal Utilities Authority
 Executive Director
 370 Richard Mine Road
 Wharton, New Jersey 07885

ORIGINAL



**Consulting & Municipal
 ENGINEERS**

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**Consulting & Municipal
ENGINEERS**

3759 Hwy 1 South, Suite 100
Monmouth Junction, NJ 08852
732.951.2101 ☎
www.cmeusa1.com 🌐

January 28, 2025

Attn: Larry Gindoff, Executive Director
Morris County Municipal Utilities Authority
370 Richard Mine Road
Wharton, New Jersey , 07885

Re: Proposal for Professional Services: #02 – Engineering Services – Solid Waste Division

Dear Mr. Gindoff:

CME Associates is pleased to submit for your consideration this Proposal for Professional Services for the provision of Engineering Services – Solid Waste Division for the Morris County Municipal Utilities Authority (MCMUA). CME is pleased to provide the MCMUA with one (1) original copy of the Proposal. Forms are provided in **Section 1**.

BRIEF INTRODUCTION TO CME ASSOCIATES

CME Associates is a multi-disciplined consulting engineering firm dedicated to providing a high quality of professional Engineering Consulting Services. CME Associates provides a complete range of Environmental Engineering and Solid Waste Management Consulting Services that would serve to be instrumental in fulfilling the MCMUA's required services in a cost-effective and timely manner. CME Associates has considerable experience performing environmental consulting services for solid waste management, landfill engineering design and permitting including landfill closure and post-closure, management of dredged materials, land use permits including Waterfront Development permit, wetlands delineation and compensatory wetlands mitigation design, topographic surveys, and construction management. CME Associates has extensive experience in working with the NJDEP, USEPA and ACOE on permitting, compliance, and other regulatory concerns.

CME Associates has the appropriate federal and state licenses to perform activities for this project. CME Associates presently has a total staff of over 350 people in its seven (7) offices in New Jersey (Monmouth Junction, Parlin, Howell, Barnegat, Camden, Medford, and Berlin). The Landfill Consulting Services for the MCMUA will be primarily provided by the Monmouth Junction office; contact information is provided below:

Behram Turan, P.E., LSRP
Senior Vice President
CME Associates
3759 U.S. Hwy 1 South – Suite 100
Monmouth Junction, NJ 08852
Email: bturan@cmeusa1.com
Telephone: (732) 951-2101
Fax: (732) 951-2106

Additional information related to the CME Associates' qualifications is provided in **Section 3**.

CONSULTING AND MUNICIPAL ENGINEERS LLC
NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28359000
Barnegat • Berlin • Camden • Howell • Medford • Monmouth Junction • Parlin



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PROJECT UNDERSTANDING & APPROACH

CME understands that the Morris County Board of Chosen Freeholders has designated the MCMUA to be the implementing agency for the Morris County Solid Waste Management Plan. As such, the MCMUA provides operations such as solid waste disposal at its transfer stations to the hauling community, curbside recycling collection to municipalities, and additional solid waste management services to the residents and businesses of Morris County.

CME is prepared to provide solid waste engineering services to the MCMUA including, but not limited to, the following:

- Solid Waste projects
- Transfer Station permitting
- Engineering design and construction
- Household Hazardous Waste Facility design and construction

A Scope of Service is provided in **Section 2**.

SOLID WASTE EXPERIENCE

CME Associates has successfully prepared recycling services for public authorities, landfill closure and post-closure services, ground water monitoring reports, air emissions statements, and conducted landfill gas sampling at various landfills in New Jersey including Gloucester County Solid Waste Complex, Middlesex County Landfill, Monmouth County landfills at the Monmouth County Reclamation Center Facility, former Overpeck Landfill in Bergen County, former Bayonne municipal landfill, former ILR landfill in Edison, former City of Linden Sanitary Landfill, Legler Landfill in Jackson Township, and Plainsboro Landfill in Plainsboro, among others. The following projects are presented as typical examples:

1) *Cumberland County Solid Waste Complex, Deerfield Twp., Cumberland County, New Jersey*

CME has been serving the Cumberland County Improvement Authority as the **Solid Waste Engineer** for the Cumberland County Landfill since 2016. To date, CME has assisted the Cumberland County Improvement Authority by performing the following services: i) Annual Topographic Survey Report, ii) Annual Engineering Report, iii) Annual Inspection Report, iv) Statistical analyses associated with Groundwater Detection Monitoring Program, v) Statistical analyses associated with NJPDES permit for storm water basin recharge, vi) Design of stormwater management system including additional detention basins, vii) Design of a new infiltration basin as a part of enhanced site-wide Stormwater Management Plan, viii) Preparation of the Renewal of Solid Waste Facility Permit and Minor Modification, ix) Preparation of updates to the Landfill Closure/ Post Closure Financial Plan, x) Performance evaluation of the existing leachate treatment system and designing/overseeing the expansion plan for increased leachate treatment



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capacity, xi) Re-certifications of constructed landfill cells, and xii) Provisions of other on-call landfill services as necessary.

2) Gloucester County Solid Waste Complex, South Harrison Twp., Gloucester County, New Jersey

CME has been serving the Gloucester County Improvement Authority as the **Solid Waste Engineer** of record for the period April 17, 2015 to February 28, 2025, and has been providing defined and on-call professional services in connection with the operation and permitting of the GCSWC, including: i) annual topographic survey; ii) annual engineering report; iii) annual inspection; iv) landfill gas flare emissions testing/reporting; v) surface and perimeter landfill gas monitoring; vi) statistical analyses for the Groundwater Detection Monitoring Program; vii) statistical analyses for the NJPDES permit for storm water basin recharge; viii) permit renewal and compliance assistance for the Title V Air Pollution Control Operating Permit; ix) design, contract administration, construction oversight, and inspection services for the construction of Cells 13, 14, 15, and 16; x) preparation Solid Waste Facility Permit renewals and of the design for the Lateral Landfill Expansion of approximately 71 acres, and obtain approval for the Amendment to the Gloucester County District Solid Waste Management Plan for the Phase IX Development Lateral Expansion; xi) leachate treatment pilot study; xii) design of two pump stations for the GCUA regional sewage/leachate forcemain; xiii) prepared updates to the Landfill Closure/ Post-Closure Financial Plan; and xix) on-call services including litigation support and other services required by the Authority.

3) Middlesex County Landfill, East Brunswick, Middlesex Co., New Jersey

Currently, CME serves as the Solid Waste Engineer of record for the Middlesex County Utilities Authority Division of Solid Waste in relation to the operation of the Middlesex County Landfill. CME has assisted with maintaining compliance with the landfill's NJPDES Permit. CME performs annual inspections of the stormwater management system and prepares Annual Inspection Reports. CME is responsible for providing recommendations to update the Stormwater Pollution Prevention Plan for the capped area of the Landfill and is in charge of assisting the MUA with complying with the Discharge to Groundwater requirements associated with the NJPDES permit. This includes the preparation of semi-annual groundwater quality monitoring reports. CME performs statistical analyses to evaluate the groundwater quality trend; the results of which are included in the semi-annual reports. CME has provided assistance to the MUA with updates to the Closure/



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Post Closure Financial Plan of the Middlesex County Landfill. In addition, CME is assisting the MCUA in any necessary modifications as required by the NJDEP and any other updates that may be necessary. CME designed and oversaw the installation of an odor control and mitigation system and interim cap at the landfill. CME designed and provided construction oversight services for installation of approximately 15 acres of sideslope temporary rain cover. CME prepared a Request for Proposals for the development of a food waste recycling facility consisting of bioslurry production system, food waste anaerobic digester, and a biogas purification system for renewable natural gas (RNG) utilization at the Middlesex County Landfill. CME has recently submitted a Solid Waste Facility Permit renewal and a Major Modification for a Vertical Landfill Expansion to the NJDEP. CME is assisting MCUA with a potential landfill gas to renewable natural gas facility for the Middlesex County Landfill.

4) Monmouth County Reclamation Center, Tinton Falls, Monmouth County, New Jersey

CME Associates has been providing the Monmouth County Department of Public Works & Engineering with defined and on-call professional solid waste management and environmental engineering, planning and surveying services in connection with the operation and permitting of the Monmouth County Division of Reclamation Facilities for the last six (6) years, including i) Semiannual ground water protection program compliance reports for MCRC; ii) Semiannual ground water contour map for both the upper Kirkwood and Vincenttown Aquifers; iii) Annual Compliance Statement, Semiannual Deviation Reports, Annual Emission Statement, Annual Greenhouse Gas Report for the MCRC Title V Operating Permit; iv) Quarterly letter report and monitoring location map for the results of perimeter gas testing at Howell Landfill; v) Semiannual letter report for the results of laboratory gas testing from three gas vents at Howell Landfill; vi) Annual topographic report for the approximate 266-acre area of the Phase I, II and III landfills as required by N.J.A.C. 7:26-2A.8 for submission to the NJDEP; vii) Closure permit, NJPDES permit and Title V permit compliance and monitoring services; viii) Prepared updates to the Landfill Closure/ Post Closure Financial Plan including the new Lateral Landfill Expansion, and ix) On-call services include activities related to the landfill operations.

5) City of Linden Sanitary Landfill, Linden, Union Co., New Jersey

CME Associates provided engineering and environmental services to the City of Linden for the landfill closure and post-closure activities for the City of Linden Sanitary Landfill in



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Linden, New Jersey. CME has prepared contract documents for landfill gas utilization and renewable energy (wind/solar), provided Quality Assurance services for the landfill closure activities including final capping system, storm water management system, and passive landfill gas system and prepared the NJDEP Subchapter 8 and Title V air permits for the gas collection and treatment system for the landfill and passive systems at the landfill. CME Associates designed the active landfill gas extraction and control system and enclosed flare, prepared bid documents, and assisted the City to procure the contractor for the construction of the active landfill gas extraction system. CME Associates is currently providing on-going construction management services for the active landfill gas extraction system. CME Associates continues to support the City with methane gas survey around the perimeter of the landfill buffer zone and the perimeter of all on-site structures on a quarterly basis, and monthly monitoring and adjustments to the gas wellheads. CME Associates negotiated the conditions of the Title V air permit with USEPA and NJDEP for the gas collection system and enclosed flare. CME Associates has been providing on-going services for operations and maintenance of the leachate collection and conveyance system, including monthly leachate sampling in compliance with the Linden Roselle Sewerage Authority permit requirements.

6) Former Bayonne Landfill/ Bayonne Golf Club, Bayonne, Hudson Co., New Jersey

CME Associates was instrumental in the redevelopment of the Bayonne Golf Club Site, consisting of approximately 130 acres of contaminated brownfields including the former Bayonne Sanitary Landfill and the former PSE&G site. The remediation and closure of this site involved the remediation of forty-two (42) individual areas of concern, historic fill, the installation of engineering controls, and the placement of Beneficial Reuse Materials in accordance with N.J.A.C. 7:26E-4. The NJDEP-approved engineering controls for the site include: a perimeter vertical hydraulic barrier; a leachate collection and conveyance system; and an active gas collection system. CME Associates prepared as-built reports for the remedial action elements, prepared the Remedial Action Report, established a Deed Notice, and obtained a site-wide No-Further-Action letter for this project. CME Associates prepared an air permit application, conducts quarterly landfill gas monitoring, and provides quarterly and annual emissions reports to the NJDEP. CME Associates also monitors groundwater and provides annual groundwater monitoring reports to NJDEP.

7) Burlington County Resource Recovery Complex, Columbus, Burlington Co., New Jersey

CME Associates provided Geotechnical Engineering Services for the Burlington County Resource Recovery Complex to assist the County with the permitting and design of the



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proposed Landfill No. 3 lateral expansion which is approximately 50 acres. Mr. Turan oversaw the geotechnical investigations in accordance with the NJDEP Solid Waste Regulations (NJAC 7:26-2A(6)) and the NJDEP DGW Permitting Program for Sanitary Landfills. A Geotechnical Design Analysis Report to support the Engineering Design and permitting for the proposed lateral expansion was prepared.

Additional information related to Solid Waste Relevant Experience and References is provided in **Section 4.**

KEY PERSONNEL

Behram Turan, P.E., LSRP, Senior Vice President, will be the Project Manager and main point of contact for this project. Mr. Turan has over 30 years of experience in the fields of environmental engineering, including Landfill Engineering and Solid Waste Management, site remediation, brownfields redevelopment, management of dredged materials and beneficial reuse, wetlands mitigation, surface water hydrology, hydrogeology, groundwater flow and contaminant mass transport, and water resources planning. Mr. Turan is a Professional Engineer in the state of New Jersey, a Licensed Site Remediation Professional (LSRP), and a Certified Subsurface Evaluator. Mr. Turan has issued fifty (50) Response Action Outcomes (RAOs) since the initiation of the LSRP Program.

Mr. Turan has been assigned as the Solid Waste Engineer for three (3) operating landfills in New Jersey, as follows: **(1) Cumberland County Landfill (2) Gloucester County Landfill; and (3) Middlesex County Landfill.** In addition, Mr. Turan has been providing defined and on-call services for the Monmouth County Reclamation Center Landfills.

Mr. Turan has also directed air permitting and compliance services for landfill gas collection systems and enclosed flares for projects located in New Jersey including the Bayonne Golf Club, Middlesex Logistics Center, and Linden Landfill. In addition, Mr. Turan has been the Project Manager for the City of Linden Landfill over 20 years. Mr. Turan designed and implemented the landfill improvements including construction of a perimeter slurry wall, leachate collection and conveyance system, landfill gas extraction system, and final cover. Mr. Turan also designed a vertical landfill expansion plan which provided additional air space for the City of Linden Landfill to operate from 1994 to 2000.

Mr. Turan will be mainly assisted by the following key personnel:

- **Mohammad Zaman, Ph.D., P.E., LSRP, BCEE, Director of Environmental Services**

Dr. Zaman is a Board Certified Environmental Engineer (BCEE) for Hazardous Waste Management by American Academy of Environmental Engineers. Dr. Zaman has over 20 years of professional experience in providing technical and regulatory compliance services. He has been engaged in developing Municipal Solid Waste (MSW) landfill design and closure



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plans, landfill stormwater management plans, confined space entry plans, and troubleshooting & designing leachate collection and treatment systems. He has provided LSRP services and issued Remedial Action Outcomes (RAO) to bring closure to contaminated sites. Dr. Zaman is experienced in planning and developing remedial strategies; evaluating and implementing innovative and emerging technologies; designing, specifying, commissioning, and operating state-of-the art wastewater and remediation/pollution control systems. He has extensive experience in developing stormwater management plans, soil and groundwater characterization, groundwater flow and contaminant fate & transport modeling and the design and implementation of innovative soil and groundwater remediation technologies.

• **Suresh Puppala, Ph.D., P.E., LSRP, Program Manager**

Mr. Puppala has over 15 years of experience in environmental engineering. His experience spans the gamut from academic research to consulting engineering services associated with site remediation projects, and solid waste management including Carteret Landfill Redevelopment in Carteret, New Jersey, and Whippany Landfill in Whippany, New Jersey.

• **Zahid Siddiqui, P.E., Program Manager**

Mr. Siddiqui has over 25 years of experience in site planning and development, surface water hydrogeology and hydrodynamic modeling, stormwater management, and green infrastructure. He is a licensed professional engineer in New Jersey and Virginia, and is a certified floodplain manager. He has designed a 15,000 foot retrofit leachate collection system for an old landfill site (Brownfield) using pneumatic pumps and a landfill gas collection system for a 400 acre landfill gas to energy facility. He has performed stability analysis of slopes for a 300 acre Brownfield Site and designed geogrid slope reinforcements and sheet piles. He has designed 15 state of the art new MSW landfills in Northern Africa. The design included site selection studies, geological mapping, groundwater and stormwater modeling, modeling of gas generation rates, seismic stability analysis, design of liner and capping systems, design of leachate collection and disposal systems, design of stormwater management system, design of gas collection and venting system, and scheduling construction activities.

Resumes of key personnel describing their education, experience, special accreditations, and professional affiliations or memberships, as well as copies of licenses and certifications, are included in **Section 5**.

PROPOSED HOURLY RATE SCHEDULE

CME Associates will invoice the MCMUA on a time and material basis as well as other project related expenses in accordance with the hourly rate schedule included in **Section 6**. Expenses incurred for reproduction, postage handling, photographs and for services including sub-consultants, equipment and facilities not furnished by CME are charged to the MCMUA at cost plus ten percent.



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Should you require additional information or should you have any questions concerning the enclosed qualifications statement, please contact me at (732) 951-2101 to discuss them with you in more detail and provide clarification as necessary.

Very truly yours,
CME Associates

Behram Turan, P.E., LSRP
Senior Vice President

Enclosures



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SECTION 1

Section 1.

Forms



MORRIS COUNTY MUA

Administrative Documents

A. Please submit the following documents with your response to the RFP

Owner's Checkmarks		Bidder's Initials
X	Statement of Ownership Disclosure	BT
X	Non-Collusion Affidavit	BT
X	Disclosure of Investment Activities In Iran	BT
X	Certification of Non-Involvement in Prohibited Activities in Russia or Belarus	BT
X	Affidavit of Non-Debarred Status	BT
X	Affirmative Action Compliance Notice	BT
X	Mandatory EEO Language	BT
X	Americans with Disability Act of 1990 Form	BT
X	Anti-Discrimination Requirements	BT
X	Pay to Play Advisory Notice	BT
X	Certificate of Employee Information Report/AA-302	BT
X	W-9	BT
X	New Jersey Business Registration Certificate	BT
X	Proposal (document not provided)	BT

MORRIS COUNTY MUA

Statement of Ownership Disclosure

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information with the bid is cause for automatic rejection of the bid or proposal.

Name of Organization: CME Associates

Organization Address: 3141 Bordentown Avenue, Parlin, NJ 08859

Part I Check the box that represents the type of business organization:

- Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- For-Profit Corporation (any type) Limited Liability Company (LLC)
- Partnership Limited Partnership Limited Liability Partnership (LLP)
- Other (be specific): _____

Part II

- The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST BELOW IN THIS SECTION)**

OR

- No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

(Please attach additional sheets if more space is needed):

Name of Individual or Business Entity	Address

MORRIS COUNTY MUA

Statement of Ownership Disclosure

Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

Please list the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II other than for any publicly traded parent entities referenced above. **The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. Attach additional sheets if more space is needed.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Address

Part IV Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the **Morris County Municipal Utilities Authority** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with **Morris County Municipal Utilities Authority** to notify the **Morris County Municipal Utilities Authority** in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the **Morris County Municipal Utilities Authority** to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):	Anand Paluri, PE, PTOE	Title:	President/CEO
Signature:		Date:	1/14/2025

MORRIS COUNTY MUA

Non-Collusion Affidavit

STATE OF NEW JERSEY

MORRIS COUNTY MUNICIPAL UTILITIES AUTHORITY ss:

I certify that I am Anand Paluri, PE, PTOE - President/CEO

of the firm of CME Associates


the Respondent making this Proposal for the bid or proposal for the above named project, that I executed the said proposal with full authority to do so; that said bidder has not, directly or indirectly entered into any agreement, participated in any collusion in connection with the above named project; and that all statements contained in said proposal and this affidavit are true, correct, and made with full knowledge that the Morris County Municipal Utilities Authority relies upon the truth of the statements contained in said Proposals and in the statements contained in this affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees or bona fide established commercial or selling agencies.

Signature of Representative: 

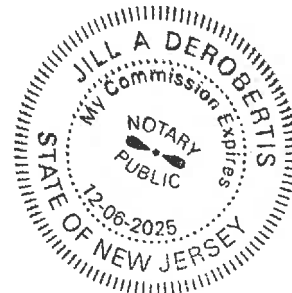
Anand Paluri, PE, PTOE - President/CEO

Subscribed and sworn to before me this 14 day of January, 20 25

Print Name of Affiant: Jill DeRobertis 

Notary Public of New Jersey

My commission expires Dec 6, 2025



MORRIS COUNTY MUA

Disclosure of Investment Activities in Iran

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that the person or entity, or one of the person or entity's parents, subsidiaries, or affiliates, is not identified on a list created and maintained by the Department of the Treasury as a person or entity engaging in investment activities in Iran. If the Director finds a person or entity to be in violation of the principles which are the subject of this law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the person or entity.

I certify, pursuant to Public Law 2012, c. 25, that the person or entity listed for which I am authorized to bid/renew:

Bidder/Offeror: CME Associates

- is not providing goods or services of \$20,000,000 or more in the energy sector of Iran, including a person or entity that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; is not a financial institution that extends \$20,000,000 or more in credit to another person or entity, for 45 days or more, if that person or entity will use the credit to provide goods or services in the energy sector in Iran.

In the event that a person or entity is unable to make the above certification because it or one of its parents, subsidiaries, or affiliates has engaged in the above-referenced activities, a detailed, accurate and precise description of the activities must be provided in part 2 below to the Division of Purchase under penalty of perjury. Failure to provide such will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

PART 2: PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

You must provide, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

Name: _____ Relationship to Bidder/Offeror: _____

Description of Activities: _____

Duration of Engagement: _____ Anticipated Cessation Date: _____

Bidder/Offeror Contact Name: _____ Contact Phone Number: _____

Certification: I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above-referenced person or entity. I acknowledge that Town/ Township/ Borough/Government Agency is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the MCMUA to notify the MCMUA in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with Morris County Municipal Utilities Authority, New Jersey and that the MCMUA at its option may declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): Anand Paluri, PE, PTOE Signature: 

Title: President/CEO Date: 1/14/2025

MORRIS COUNTY MUA

Certification of Non-Involvement in Prohibited Activities in Russia or Belarus

Pursuant to N.J.S.A. 52:32-60.1, et seq. and N.J.S.A.40A:11-2.2 (L. 2022, c. 3) any person or entity (hereinafter "Vendor") that seeks to enter into or renew a contract with a local contracting unit subject to the Local Public Contracts Law for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, certify that I have read the definition of "Vendor" below, and have reviewed the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, and having done so certify

(Check the Appropriate Box)



- A. That the Vendor is not identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).

OR



- B. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).

OR



- C. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list](#). However, the Vendor is engaged in activity related to Russia and/or Belarus consistent with federal law, regulation, license or exemption. A detailed description of how the Vendor's activity related to Russia and/or Belarus is consistent with federal law is set forth below.

(Attach Additional Sheets If Necessary.)



1/14/2025

Signature of Vendor's Authorized Representative

Date

Anand Paluri, PE, PTOE

22-3484435

Print Name and Title of Vendor's Authorized Representative

Vendor's FEIN

CME Associates

732-727-8000

Vendor's Name

Vendor's Phone Number

3141 Bordentown Avenue

732-727-3989

Vendor's Address (Street Address)

Vendor's Fax Number

Parlin, NJ 08859

apaluri@cmeusa1.com

Vendor's Address (City/State/Zip Code)

Vendor's Email Address

ⁱ Vendor means: (1) A natural person, corporation, company, limited partnership, limited liability partnership, limited liability company, business association, sole proprietorship, joint venture, partnership, society, trust, or any other nongovernmental entity, organization, or group; (2) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in Section 1701(c)(3) of the International Financial Institutions Act, 22 U.S.C. 262r(c)(3); or (3) Any parent, successor, subunit, direct or indirect subsidiary, or any entity under common ownership or control with, any entity described in paragraph (1) or (2).

MORRIS COUNTY MUA

Affirmative Action Compliance Notice

EXHIBIT A

GOODS, GENERAL SERVICES, AND PROFESSIONAL SERVICES CONTRACTS

This form is a summary of the successful vendor's requirement to comply with the requirements of N.J.S.A. 10:5-31 and N.J.A.C. 17:27.

The successful respondent shall submit to the public agency, after notification of award but prior to execution of the contract, one of the following three documents as forms of evidence:

1. Letter of Federal Affirmative Action Plan Approval
2. Certificate of Employee Information Report
3. A photocopy of an Employee Information Report (AA302) provided by the Division and distributed to the public agency to be completed by the vendor in accordance with N.J.A.C. 17:27-4.

The successful vendor(s) must submit the copies of the AA302 Report to the Division of Contract Compliance and Equal Employment Opportunity in Public Contracts (Division). The Public Agency copy is submitted to the public agency, and the vendor copy is retained by the vendor.

The undersigned vendor further understands that his/her proposal shall be rejected as non-responsive if said vendor fails to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27.

Business Name: CME Associates

Representative's Name (print): Anand Paluri, PE, PTOE - President/CEO

Representative's Signature:



Date:

1/14/2025

Phone: 732-727-8000

MORRIS COUNTY MUA

Mandatory EEO Language

EXHIBIT A

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE

N.J.S.A. 10:5-31 et seq. (P.L.1975, c.127)

N.J.A.C. 17:27 et seq.

GOODS, GENERAL SERVICES, AND PROFESSIONAL SERVICES CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.

MORRIS COUNTY MUA

Mandatory EEO Language

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions. The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval;

Certificate of Employee Information Report; or

Employee Information Report Form AA-302 (electronically provided by the Division and distributed to the public agency through the Division's website at: http://www.state.nj.us/treasury/contract_compliance.)

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase & Property, CCAU, EEO Monitoring Program as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq

Business Name: CME Associates

Representative's Name (print): Anand Paluri, PE, PTOE - President/CEO

Representative's Signature:



Date:

1/14/2025

MORRIS COUNTY MUA

Americans with Disabilities Act of 1990 Form

The CONTRACTOR and the OWNER do hereby agree that the provisions of Title 11 of the Americans With Disabilities Act of 1990 (the "ACT") (42 U.S.C. S12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereto, are made a part of this contract. In providing any act benefit, or service on behalf of the OWNER pursuant to this contract, the CONTRACTOR agrees that the performance shall be in strict compliance with the Act. In the event that the Contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the CONTRACTOR shall defend the OWNER in any action or administrative proceeding commenced pursuant to this Act. The Contractor shall indemnify, protect, and save harmless the OWNER, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The CONTRACTOR shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the OWNER grievance procedure, the CONTRACTOR agrees to abide by any decision of the OWNER which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the OWNER or if the OWNER must any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the CONTRACTOR shall satisfy and discharge the same at its OWN expense.

The OWNER shall, as soon as practicable after a claim has been made against it, give written notice thereof to the CONTRACTOR along with frill and complete particulars of the claim. if any action or administrative proceedings is brought against the OWNER or any of its agents, servants, and employees, the OWNER shall expeditiously forward or have forwarded to the CONTRACTOR every demand, complaint, notice, summons, pleading, or other process received by the OWNER or its representatives.

It is expressly agreed and understood that any approval by the OWNER of the services provided by the CONTRACTOR pursuant to this contract will not relieve the CONTRACTOR of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the OWNER pursuant to this paragraph.

It is further agreed and understood that the OWNER assumes no obligation to indemnify or save harmless the CONTRACTOR, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the CONTRACTOR expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the CONTRACTOR'S obligations assumed in this Agreement, nor shall they be construed to relieve the CONTRACTOR from any liability, nor preclude the OWNER from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the owner from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

Business Name (Print): CME Associates

Representative's Name (Print): Anand Paluri, PE, PTOE

Representative's Title: President/CEO

Representative's Signature:



Phone: 732-727-8000

Date:

1/14/2025

MORRIS COUNTY MUA

New Jersey Anti-Discrimination

Pursuant to N.J.S.A. 10:2-1:

- a. In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates;
- b. No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex;
- c. There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$ 50.00 for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the contract; and
- d. This contract may be canceled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the contracting public agency of any prior violation of this section of the contract.

Business Name (Print): CME Associates

Representative's Name (Print): Anand Paluri, PE, PTOE

Representative's Title: President/CEO

Representative's Signature:



Phone: 732-727-8000

Date:

1/14/2025

MORRIS COUNTY MUA

Pay to Play Advisory

PAY TO PLAY ADVISORY **Disclosure Requirement** **(N.J.S.A. 19:44A – 20.27)**

Any business entity that has received \$50,000 or more in contracts from government entities in a calendar year will be required to file an annual disclosure report with ELEC.

The report will include certain contributions and contract information for the current calendar year.

At a minimum, a list of all business entities that file an annual disclosure report will be listed on ELEC's website at www.elec.state.nj.us.

If you have any questions please contact ELEC at:
1-888-313-ELEC (toll free in NJ) or
609-292-8700

An analyst from ELEC's Special Programs Section will assist you.

Initials



Certification 1818

**CERTIFICATE OF EMPLOYEE INFORMATION REPORT
RENEWAL**

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of **15-FEB-2023** to **15-FEB-2026**

**CME ASSOCIATES
1460 ROUTE 9, SOUTH
HOWELL**

NJ 07731 1194



Elizabeth Maher Muoio
ELIZABETH MAHER MUOIO
State Treasurer

Request for Taxpayer Identification Number and Certification

Go to www.irs.gov/FormW9 for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See Specific Instructions on page 3.	<p>1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)</p> <p>Consulting & Municipal Engineers, LLC</p>	
	<p>2 Business name/disregarded entity name, if different from above.</p> <p>CME Associates</p>	
	<p>3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes.</p> <p><input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C corporation <input type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate</p> <p><input checked="" type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership)</p> <p>Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.</p> <p><input type="checkbox"/> Other (see instructions) _____</p>	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):</p> <p>Exempt payee code (if any) _____</p> <p>Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____</p> <p style="text-align: right;"><i>(Applies to accounts maintained outside the United States.)</i></p>
	<p>3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions <input type="checkbox"/></p>	
	<p>5 Address (number, street, and apt. or suite no.). See instructions.</p> <p>3141 Bordentown Avenue</p>	<p>Requester's name and address (optional)</p>
	<p>6 City, state, and ZIP code</p> <p>Parlin, New Jersey 08859</p>	
	<p>7 List account number(s) here (optional)</p>	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Social security number									
or									
Employer identification number									
2	2	-	3	4	8	4	4	3	5

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person *Joe Marchetti*

Date 1/21/25

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they



STATE OF NEW JERSEY BUSINESS REGISTRATION CERTIFICATE

Taxpayer Name: CONSULTING AND MUNICIPAL ENGINEERS LLC

Trade Name:

Address: 1460 ROUTE 9 SOUTH
HOWELL, NJ 07731

Certificate Number: 2786089

Effective Date: October 31, 2022

Date of Issuance: January 03, 2023

For Office Use Only:
20230103100839074

SECTION 2

Section 2. Scope of Services





SCOPE OF SERVICES

Introduction

CME understands that qualifications for Engineering Services for the Solid Waste Division are sought by the Morris County Municipal Utilities Authority for the period of February 12, 2025 to February 10, 2026. Established in 1983, CME Associates is a multi-disciplined consulting engineering firm dedicated to providing a high quality of professional Engineering Consulting Services. CME Associates provides a complete range of Environmental Engineering and Solid Waste Management Consulting Services that would serve to be instrumental in fulfilling the Township's required services in a cost-effective and timely manner. CME Associates has considerable experience performing environmental consulting services for solid waste management, landfill engineering design and permitting including landfill closure and post-closure, management of dredged materials, land use permits including Waterfront Development permit, wetlands delineation and compensatory wetlands mitigation design, topographic surveys, and construction management. CME Associates has extensive experience in working with the NJDEP, USEPA and ACOE on permitting, compliance, and other regulatory concerns.

Scope of Work

CME understands that the Morris County Board of Chosen Freeholders has designated the MCMUA to be the implementing agency for the Morris County Solid Waste Management Plan. As such, the MCMUA provides operations such as solid waste disposal at its transfer stations to the hauling community, curbside recycling collection to municipalities, and additional solid waste management services to the residents and businesses of Morris County.

CME is prepared to provide solid waste engineering services to the MCMUA including, but not limited to, the following:

- Solid Waste projects
- Transfer Station permitting
- Engineering design and construction
- Household Hazardous Waste Facility design and construction

Relevant Experience

CME Associates has successfully prepared recycling services for public authorities, landfill closure and post-closure services, ground water monitoring reports, air emissions statements, and conducted landfill gas sampling at various landfills in New Jersey including Gloucester County Solid Waste Complex, Middlesex County Landfill, Monmouth County landfills at the Monmouth County Reclamation Center Facility, former Overpeck Landfill in Bergen County, former Bayonne municipal landfill, former ILR landfill in Edison, former City of Linden Sanitary Landfill, Legler Landfill in Jackson Township, and Plainsboro Landfill in Plainsboro, among others. The following projects are presented as typical examples:



1) Cumberland County Solid Waste Complex, Deerfield Twp., Cumberland County, New Jersey

CME has been serving the Cumberland County Improvement Authority as the **Solid Waste Engineer** for the Cumberland County Landfill since 2016. To date, CME has assisted the Cumberland County Improvement Authority by performing the following services: i) Annual Topographic Survey Report, ii) Annual Engineering Report, iii) Annual Inspection Report, iv) Statistical analyses associated with Groundwater Detection Monitoring Program, v) Statistical analyses associated with NJPDES permit for storm water basin recharge, vi) Design of stormwater management system including additional detention basins, vii) Design of a new infiltration basin as a part of enhanced site-wide Stormwater Management Plan, viii) Preparation of the Renewal of Solid Waste Facility Permit and Minor Modification, ix) Preparation of updates to the Landfill Closure/ Post Closure Financial Plan, x) Performance evaluation of the existing leachate treatment system and designing/overseeing the expansion plan for increased leachate treatment capacity, xi) Re-certifications of constructed landfill cells, and xii) Provisions of other on-call landfill services as necessary.

2) Gloucester County Solid Waste Complex, South Harrison Twp., Gloucester County, New Jersey

CME has been serving the Gloucester County Improvement Authority as the **Solid Waste Engineer** of record for the period April 17, 2015 to February 28, 2025, and has been providing defined and on-call professional services in connection with the operation and permitting of the GCSWC, including: i) annual topographic survey; ii) annual engineering report; iii) annual inspection; iv) landfill gas flare emissions testing/reporting; v) surface and perimeter landfill gas monitoring; vi) statistical analyses for the Groundwater Detection Monitoring Program; vii) statistical analyses for the NJPDES permit for storm water basin recharge; viii) permit renewal and compliance assistance for the Title V Air Pollution Control Operating Permit; ix) design, contract administration, construction oversight, and inspection services for the construction of Cells 13, 14, 15, and 16; x) preparation Solid Waste Facility Permit renewals and of the design for the Lateral Landfill Expansion of approximately 71 acres, and obtain approval for the Amendment to the Gloucester County District Solid Waste Management Plan for the Phase IX Development Lateral Expansion; xi) leachate treatment pilot study; xii) design of two pump stations for the GCUA regional sewage/leachate forcemain; xiii) prepared updates to the Landfill Closure/ Post-Closure Financial Plan; and xiv) on-call services including litigation support and other services required by the Authority.

3) Middlesex County Landfill, East Brunswick, Middlesex Co., New Jersey

Currently, CME serves as the Solid Waste Engineer of record for the Middlesex County Utilities Authority Division of Solid Waste in relation to the operation of the Middlesex County Landfill. CME has assisted with maintaining compliance with the landfill's NJPDES Permit. CME performs annual inspections of the stormwater management system and prepares Annual Inspection Reports. CME is responsible for providing recommendations to update the Stormwater Pollution Prevention Plan for the capped area of the Landfill and is in charge of



assisting the MCUA with complying with the Discharge to Groundwater requirements associated with the NJPDES permit. This includes the preparation of semi-annual groundwater quality monitoring reports. CME performs statistical analyses to evaluate the groundwater quality trend; the results of which are included in the semi-annual reports. CME has provided assistance to the MCUA with updates to the Closure/ Post Closure Financial Plan of the Middlesex County Landfill. In addition, CME is assisting the MCUA in any necessary modifications as required by the NJDEP and any other updates that may be necessary. CME designed and oversaw the installation of an odor control and mitigation system and interim cap at the landfill. CME designed and provided construction oversight services for installation of approximately 15 acres of sideslope temporary rain cover. CME prepared a Request for Proposals for the development of a food waste recycling facility consisting of bioslurry production system, food waste anaerobic digester, and a biogas purification system for renewable natural gas (RNG) utilization at the Middlesex County Landfill. CME has recently submitted a Solid Waste Facility Permit renewal and a Major Modification for a Vertical Landfill Expansion to the NJDEP. CME is assisting MCUA with a potential landfill gas to renewable natural gas facility for the Middlesex County Landfill.

4) Monmouth County Reclamation Center, Tinton Falls, Monmouth County, New Jersey

CME Associates has been providing the Monmouth County Department of Public Works & Engineering with defined and on-call professional solid waste management and environmental engineering, planning and surveying services in connection with the operation and permitting of the Monmouth County Division of Reclamation Facilities for the last six (6) years, including i) Semiannual ground water protection program compliance reports for MCRC; ii) Semiannual ground water contour map for both the upper Kirkwood and Vincentown Aquifers; iii) Annual Compliance Statement, Semiannual Deviation Reports, Annual Emission Statement, Annual Greenhouse Gas Report for the MCRC Title V Operating Permit; iv) Quarterly letter report and monitoring location map for the results of perimeter gas testing at Howell Landfill; v) Semiannual letter report for the results of laboratory gas testing from three gas vents at Howell Landfill; vi) Annual topographic report for the approximate 266-acre area of the Phase I, II and III landfills as required by N.J.A.C. 7:26-2A.8 for submission to the NJDEP; vii) Closure permit, NJPDES permit and Title V permit compliance and monitoring services; viii) Prepared updates to the Landfill Closure/ Post Closure Financial Plan including the new Lateral Landfill Expansion, and ix) On-call services include activities related to the landfill operations.

5) City of Linden Sanitary Landfill, Linden, Union Co., New Jersey

CME Associates provided engineering and environmental services to the City of Linden for the landfill closure and post-closure activities for the City of Linden Sanitary Landfill in Linden, New Jersey. CME has prepared contract documents for landfill gas utilization and renewable energy (wind/solar), provided Quality Assurance services for the landfill closure activities including final capping system, storm water management system, and passive landfill gas



system and prepared the NJDEP Subchapter 8 and Title V air permits for the gas collection and treatment system for the landfill and passive systems at the landfill. CME Associates designed the active landfill gas extraction and control system and enclosed flare, prepared bid documents, and assisted the City to procure the contractor for the construction of the active landfill gas extraction system. CME Associates is currently providing on-going construction management services for the active landfill gas extraction system. CME Associates continues to support the City with methane gas survey around the perimeter of the landfill buffer zone and the perimeter of all on-site structures on a quarterly basis, and monthly monitoring and adjustments to the gas wellheads. CME Associates negotiated the conditions of the Title V air permit with USEPA and NJDEP for the gas collection system and enclosed flare. CME Associates has been providing on-going services for operations and maintenance of the leachate collection and conveyance system, including monthly leachate sampling in compliance with the Linden Roselle Sewerage Authority permit requirements.

6) Former Bayonne Landfill/ Bayonne Golf Club, Bayonne, Hudson Co., New Jersey

CME Associates was instrumental in the redevelopment of the Bayonne Golf Club Site, consisting of approximately 130 acres of contaminated brownfields including the former Bayonne Sanitary Landfill and the former PSE&G site. The remediation and closure of this site involved the remediation of forty-two (42) individual areas of concern, historic fill, the installation of engineering controls, and the placement of Beneficial Reuse Materials in accordance with N.J.A.C. 7:26E-4. The NJDEP-approved engineering controls for the site include: a perimeter vertical hydraulic barrier; a leachate collection and conveyance system; and an active gas collection system. CME Associates prepared as-built reports for the remedial action elements, prepared the Remedial Action Report, established a Deed Notice, and obtained a site-wide No-Further-Action letter for this project. CME Associates prepared an air permit application, conducts quarterly landfill gas monitoring, and provides quarterly and annual emissions reports to the NJDEP. CME Associates also monitors groundwater and provides annual groundwater monitoring reports to NJDEP.

7) Burlington County Resource Recovery Complex, Columbus, Burlington Co., New Jersey

CME Associates provided Geotechnical Engineering Services for the Burlington County Resource Recovery Complex to assist the County with the permitting and design of the proposed Landfill No. 3 lateral expansion which is approximately 50 acres. Mr. Turan oversaw the geotechnical investigations in accordance with the NJDEP Solid Waste Regulations (NJAC 7:26-2A(6)) and the NJDEP DGW Permitting Program for Sanitary Landfills. A Geotechnical Design Analysis Report to support the Engineering Design and permitting for the proposed lateral expansion was prepared.



Project Management and Project Team

Behram Turan, P.E., LSRP, Senior Vice President, will be the Project Manager and main point of contact for this project. Mr. Turan has over 30 years of experience, including working experience with NJDEP, in solid and hazardous waste management, remediation of soil and groundwater, brownfields redevelopment, management of dredged materials and beneficial reuse, wetlands mitigation, surface water hydrology, hydrogeology, groundwater flow and contaminant mass transport, and water resources planning. Mr. Turan is a Professional Engineer in the state of New Jersey, Licensed Site Remediation Professional (LSRP), and a Certified Subsurface Evaluator. Mr. Turan served as the principal in charge for preparation of numerous landfill engineering design and permitting, and management of dredged materials for public and private sector clients. Some highlights of Mr. Turan's experience are provided as follows:

Solid and Hazardous Waste Management

- Principal in charge of providing Gloucester County Improvement Authority (GCIA) with Solid Waste Engineering services in connection with the operation and permitting of the GCSWC including: i) annual topographic survey; ii) annual engineering report; iii) annual inspection; iv) landfill gas flare emissions testing/reporting; v) surface and perimeter landfill gas monitoring; vi) statistical analyses for the Groundwater Detection Monitoring Program; vii) statistical analyses for the NJPDES permit for storm water basin recharge; viii) permit renewal and compliance assistance for the Title V Air Pollution Control Operating Permit; ix) design, contract administration, construction oversight, and inspection services for the construction of Cells 13, 14, 15, and 16; x) preparation of Solid Waste Facility Permit renewals and the design for the Lateral Landfill Expansion of approximately 71 acres, and obtain approval for the Amendment to the Gloucester County District Solid Waste Management Plan for the Phase IX Development Lateral Expansion; xi) leachate treatment pilot study; xii) design of two pump stations for the GCUA regional sewage/leachate forcemain; xiii) prepared updates to the Landfill Closure/ Post-Closure Financial Plan; and xiv) on-call services including litigation support and other services required by the Authority.
- Principal in charge of providing solid waste engineering services to the Middlesex County Utilities Authority, including assisting with maintaining compliance with the landfill's NJPDES Permit, performing annual inspections of the stormwater management system and preparing Annual Inspection Reports, providing recommendations to update the Stormwater Pollution Prevention Plan for the capped area of the Landfill, assisting the MUA with complying with the Discharge to Groundwater requirements associated with the NJPDES permit, performing statistical analyses to evaluate the groundwater quality trend, providing assistance to the MUA with updates to the Closure/ Post Closure Financial Plan of the Middlesex County Landfill, designing and overseeing the installation of an odor control and mitigation system and interim cap at the landfill, designing and providing construction oversight services for installation of approximately 15 acres of sideslope temporary rain cover, preparing a Request for Proposals for the development



of a food waste recycling facility consisting of bioslurry production system, food waste anaerobic digester, and a biogas purification system for renewable natural gas (RNG) utilization at the Middlesex County Landfill, submitting a Solid Waste Facility Permit renewal and a Major Modification for a Vertical Landfill Expansion to the NJDEP, and assisting MCUA with a potential landfill gas to renewable natural gas facility for the Middlesex County Landfill.

- Principal in charge for providing defined and on-call services for the Monmouth County Reclamation Center Landfills, including Closure permit, NJPDES permit and Title V permit compliance and monitoring services. In addition, on-call services include activities related to the landfill operations.
- Principal in charge for the implementation of the landfill closure and redevelopment activities for the former City of Bayonne Landfill Site in Bayonne, New Jersey, including Fill Acceptance Protocol and Review Engineer for final cover system, design of containment system including slurry wall and leachate collection and conveyance system, operations of the leachate control system and leachate pre-treatment system, implementation of final cover system including Processed Dredged Materials, design of underslab gas ventilation system for the Club House, design of landfill gas control system and enclosed flare, and regulatory compliance for NJDEP permit requirements.
- Principal in charge of landfill closure and post-closure activities for the City of Linden Sanitary Landfill in Linden, New Jersey, including design of landfill gas extraction and control system, Quality Assurance services for the landfill closure activities including final capping system, stormwater management system, and passive landfill gas system, preparation of Landfill Closure and Post-Closure Plans with environmental improvements which included a slurry wall and leachate collection system. The project also included the attainment of all applicable local and state permits. Managed the construction activities for the environmental improvements of the City of Linden Landfill. Designed the active landfill gas extraction and control system, including specification / contract document preparation, and managed the construction activities. Successfully negotiated the conditions of the Title V air permit with USEPA and NJDEP for the gas collection system and enclosed flare.
- Principal in charge of landfill closure and redevelopment of a portion of the ILR Landfill for a proposed 550,000 SF warehouse/office building in Edison, New Jersey, including preparation of Landfill Closure and Post-Closure Care Plan, preparation of Major Landfill Disruption Permit application, preparation of landfill capping system, and preparation of landfill gas collection and conveyance system, and preparation of Pre-construction air permits.



Beneficial Reuse of Fill Materials

- Principal in charge and designated Review Engineer for imported beneficial reuse material used as part of the implementation of the Closure Plan and Redevelopment of the Overpeck Park Landfill Areas IV into a passive recreation park including Processed Dredged Materials (PDM) for capping the site and the import of clean tested soil for covering the PDM and supporting the proposed landscaping.
- Principal in charge and designated Review Engineer for fill review engineering services related to the acceptance of daily and intermediate soil cover for the CCSWC, Gloucester County Solid Waste Complex, and the Middlesex County Landfill.
- Prepared Fill Acceptance Protocols and Beneficial Use Determination applications for a number of projects and successfully obtained NJDEP's approval for beneficial reuse materials including Processed Dredged Materials.
- Principal in charge and designated Review Engineer for over 2 million cubic yards of imported beneficial reuse materials including Processed Dredged Materials (PDM) used for the final cover system of the Bayonne Golf Course Redevelopment Project including the Former PSE&G site and the City of Bayonne Landfill in Bayonne, New Jersey.
- Principal in charge and designated Review Engineer for over 6 million cubic yards of imported beneficial reuse materials for shaping/grading and cover systems including Processed Dredged Materials (PDM) at the Meadowlands Redevelopment Project in Lyndhurst, New Jersey.
- Principal in charge of preparation of Fill Acceptance Protocol for approximately 500,000 cubic yards of imported fill materials and Processed Dredged Materials for redevelopment of a portion of the former ILR Landfill in Edison, New Jersey.
- Providing engineering services to the Sayreville Economic and Redevelopment Agency (SERA) regarding the acceptance of the imported fill materials including Processed Dredged Materials (PDM) through the process of redeveloping over 400 acres of waterfront land into a mixed-use development of residential, retail, office space, hotels, entertainment and recreation in Sayreville, New Jersey.

Regulatory Compliance and Permitting

- Principal in charge of directing air permitting and compliance services for landfill gas collection systems and enclosed flares located in New Jersey including the Bayonne Golf Club, Middlesex Logistics Center, and Linden Landfill.
- Principal in charge of procuring the environmental permits for the NJTA Interchange 12 Final Improvements project including NJDEP Freshwater Wetlands General Permit Nos. 12 and 14, an Individual Freshwater Wetlands Permit/ Waterfront Development, Water Quality Certification, Transition Area Waiver and Coastal Consistency and Individual Section 10 and 404 Permit from the U.S. Army Corps of Engineers, and preparation of wetlands mitigation proposal, and engineering design of compensatory wetlands



mitigation for approximately 10-acre area including the procurement of NJDEP and ACOE permit approvals.

- Principal in charge of procuring NJDEP permits for the redevelopment of a portion of ILR Landfill in Edison, NJ, including, Waterfront Development Permit, Landfill Closure and Post-Closure Plan, Major Landfill Disruption Permit, and Closure and Post-Closure Financial Plan, and Remedial Action Workplan approval.
- Principal in charge of procuring NJDEP permits for the redevelopment of a Former Hess Oil and Gasoline Bulk Storage Facility in Newark, New Jersey, including Waterfront Development Permit, Applicable Use Determination for the Dredged Processing Facility, Nationwide ACOE permit, and Air Permit for the operation of the facility.

The following key personnel will assist Mr. Turan on this project:

- **Mohammad Zaman, Ph.D., P.E., LSRP, BCEE, Director of Environmental Services:**
Dr. Zaman has more than 20 years of professional experience in providing technical and regulatory compliance services. Dr. Zaman is experienced in planning and developing remedial strategies; evaluating and implementing innovative and emerging technologies; designing, specifying, commissioning, and operating state-of-the art wastewater and remediation/pollution control systems. He has extensive experience in soil and groundwater characterization, groundwater flow and contaminant fate & transport modeling, and the design and implementation of innovative soil and groundwater remediation technologies.
- **Zahid Siddiqui, P.E., Program Manager**
Mr. Siddiqui has over 25 years of experience in site planning and development, surface water hydrogeology and hydrodynamic modeling, stormwater management, and green infrastructure. He is a licensed professional engineer in New Jersey and Virginia, and is a certified floodplain manager. He has designed a 15,000 foot retrofit leachate collection system for an old landfill site (Brownfield) using pneumatic pumps and a landfill gas collection system for a 400 acre landfill gas to energy facility. He has performed stability analysis of slopes for a 300 acre Brownfield Site and designed geogrid slope reinforcements and sheet piles. He has designed 15 state of the art new MSW landfills in Northern Africa. The design included site selection studies, geological mapping, groundwater and stormwater modeling, modeling of gas generation rates, seismic stability analysis, design of liner and capping systems, design of leachate collection and disposal systems, design of stormwater management system, design of gas collection and venting system, and scheduling construction activities.
- **Suresh Puppala, PhD, P.E., LSRP, Program Manager**
Mr. Puppala has over 15 years of experience in environmental engineering. His experience spans the gamut from academic research to consulting engineering services associated with characterization and remediation of impacted soil/groundwater, and solid waste management.



- Gloucester County Solid Waste Complex, South Harrison, NJ:
Project Manager involved with providing GCIA Solid Waste Engineering services in connection with i) leachate treatment feasibility, ii) evaluation of potential adverse impacts associated with accepting C&D containing gypsum drywall material, iii) evaluation of landfill cap slope failure, iv) submission of New Jersey Environmental Infrastructure Trust (NJEIT) applications for new Cell 13, new Cell 14, and new Cell 15, v) annual topographic survey, vi) annual engineering report, vii) annual inspection, viii) landfill gas flare emissions testing/reporting, ix) surface and perimeter landfill gas monitoring, x) statistical analyses associated with Groundwater Detection Monitoring Program, xi) statistical analyses associated with NJPDES permit for storm water basin recharge, and xii) permit renewal and compliance assistance for the Title V Air Pollution Control Operating Permit.
- Monmouth County Landfill and Reclamation Center, Tinton Falls, NJ:
Project Manager involved with i) statistical analyses of groundwater monitoring data in accordance with the Groundwater Detection Monitoring Program and ii) overseeing Licensed Site Remediation Professional Services associated with an on-site UST closure.
- Carteret Landfill Redevelopment, Carteret, NJ:
Managed various environmental aspects (during the final stages) of a landfill closure and redevelopment (construction of 1,250,000 sf of warehousing facilities) funded by the New Jersey Environmental Infrastructure Trust. Specifically, communicated/negotiated with NJDEP as needed; overseeing site grading operations, landfill capping soil quality control and placement; approved subcontractor submittals associated with installation of leachate collection/treatment system, landfill gas collection system, temporary and permanent landfill gas flares; analyzed compliance of the landfill gas extraction system with the NJDEP air permit requirements (i.e., flare sizing analysis to ensure emissions comply with the air permit, type of control/safety devices to be utilized, etc.); evaluated landfill gas detection systems for building interiors; prepared and submitted monthly progress reports and a Landfill Closure Report.
- Whippany Landfill, Whippany, New Jersey:
Managed O&M activities associated with a closed landfill adjacent to an active logistics center. Specifically, ensured compliance with the NJDEP air permit; negotiated with NJDEP modifications to the air permit (elimination of activated carbon control units etc.); prepared RADIUS submittals to NJDEP to modify air permit; managed emissions compliance sampling/reporting, landfill gas monitoring and facility inspection and groundwater compliance sampling.
- James Sousa, PhD., LSRP, Program Manager
Mr. James Sousa, Ph.D., LSRP is an experienced Senior Hydrogeologist and has conducted hydrogeologic modeling for fate and transport of contaminants in groundwater to evaluate in-situ and ex-situ remediation systems, prepared landfill disruption permits, and prepared landfill Closure and Post-Closure Plans.



- **Michael McGurl, PLS, Director of Surveying Services**

Mr. McGurl has over twenty years of experience in boundary and right-of-way surveying. This experience has included: the preparation of right-of-way documents, large boundary surveys, establishment of horizontal and vertical control networks through land based and satellite techniques, hydrographic and topographic mapping, research of public and private title records, and the preparation of legal descriptions for fee and easement acquisition.

Resumes of the key personnel are provided in **Section 6**.

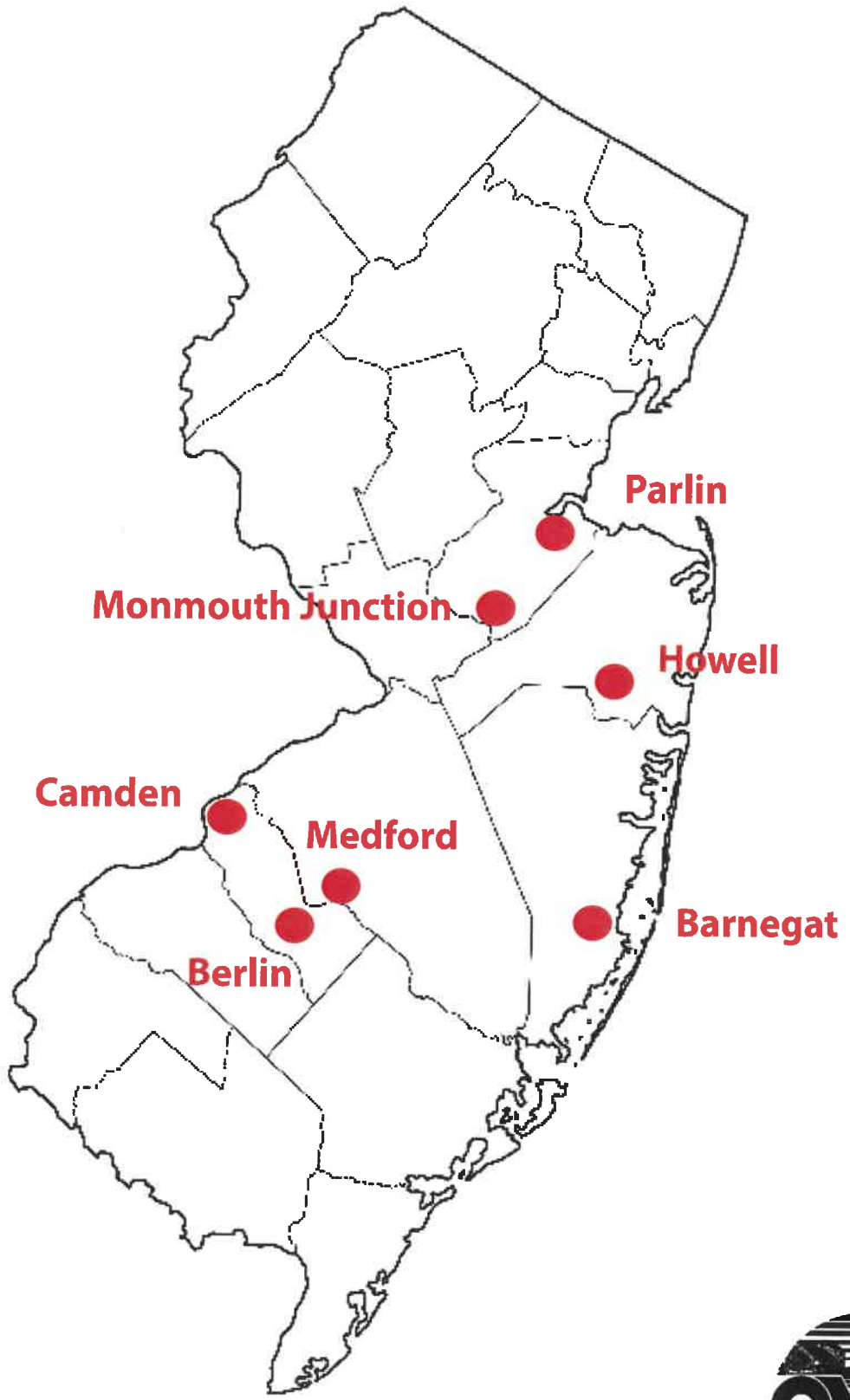
SECTION 3

Section 3. CME Associates' Qualifications



General Information about CME Associates

CME Associates has eight (8) convenient locations throughout New Jersey





CME Associates offers eight (8) convenient locations throughout New Jersey

Parlin office

3141 Bordentown Ave.
Parlin, NJ 08859
P: 732.727.8000
F: 732.727.3989

Howell office

1460 Rt. 9 South
Howell, NJ 07731
P: 732.462.7400
F: 732.409.0756

Environmental & Geotechnical Division

3759 Hwy 1 South
Suite 100
Monmouth Junction, NJ 08852
P: 732.951.2101
F: 732.951.2106

Camden office

1 Market St.
(In the Victor Building)
Camden, NJ 08102
P: 732.410.2651

Barnegat office

849 West Bay Ave.
Suite 7
Barnegat, NJ 08005
P: 732.410.2650

Berlin Office

344 NJ-73 #A
Berlin, NJ 08009
P: 856.767.6901

Medford Office

418 Stokes Rd.
Medford, NJ 08055
P: 609.654.4440

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GENERAL INFORMATION ABOUT CME ASSOCIATES ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM



CME Associates is a multi-disciplined consulting engineering firm dedicated to providing a high quality of professional services in a cost-effective and timely manner. We endeavor to develop and maintain long term, responsive and personal business relationships with our clients and to address their needs in a positive and successful manner. Through our commitment to the principles of integrity and quality, we utilize practical and innovative problem solving techniques to ensure that our clients' problems are resolved cost-effectively through technically sound, scientifically-based methods in an environmentally conscious and responsive manner.

The qualifications and experience of its personnel are CME Associates' greatest assets. The firm has made a conscious effort to attract, develop and retain the highest quality professionals chosen for their demonstrated capabilities, field experience, energy, commitment to excellence and ability to accept increasing levels of responsibility. Our staff includes civil engineers, site engineers, environmental engineers and scientists, LSRPs, planners, hydraulic engineers, surveyors, geologists, geotechnical engineers, hydrogeologists, wetlands technicians, GIS specialists, landscape architects, and office and field support staff experienced in all disciplines necessary to successfully complete our client's projects.

CME Associates' approach to properly addressing a client's requirements is based on: maintaining sensitivity to social and legal issues; a comprehensive understanding of regulatory and permitting requirements; an awareness of established and developing technologies; and an appreciation of economic constraints.

The key to efficient project resolution and regulatory and permitting compliance is a thorough understanding of both the letter and spirit of the regulations, and the manner in which they are enforced. We have developed positions of mutual respect and sound working

relationships with various bureaus of the New Jersey Departments of Environmental Protection (NJDEP), Transportation, Community Affairs and other regulatory agencies. These working relationships enhance our ability to respond to our clients' needs as the environment, and the associated regulations pertaining thereto, grow increasingly complex.

CME Associates has developed collaborative and mutually respectful working relationship with the NJDEP personnel in various programs, and has a demonstrated track record in meeting the requirements of several NJDEP programs simultaneously and obtaining NJDEP's concurrence on potentially contentious issues to meet our client's schedule expeditiously.

CME Associates takes great pride in providing quality engineering and remediation oversight services for its clients. Our engineering and site remediation professionals work in a team environment to complete the designated tasks in a timely manner and with quality, positive results for the enhancement of the community.

CME Associates provides Engineering and Site Remediation services for a complete range of projects including: Licensed Site Remediation Professional (LSRP) services, Due Diligence Services, site investigation and remediation, brownfields redevelopment, solid and hazardous waste management, underground storage tank remediation, landfill closure and redevelopment, and implementation of remedial actions. We have been actively involved in the preparation and implementation of numerous remedial plans for industrial and commercial facilities, brownfields, landfills, Superfund sites, and UST sites. The following provides for a brief overview of site remediation and regulatory permitting programs:

Licensed Site Remediation Professional (LSRP) Services

The enactment of the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. ("SRRRA") on May 7,

GENERAL INFORMATION ABOUT CME ASSOCIATES ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM

2009 introduced sweeping changes to the way in which sites are remediated in New Jersey. SRRA establishes a program for the licensing of Licensed Site Remediation Professionals ("LSRPs") who will have responsibility for oversight of environmental investigation and cleanup. CME Associates is well positioned to assume the responsibilities of the day-to-day management and oversight for environmental investigation and cleanup through qualified LSRPs.

Behram Turan, P.E., L.S.R.P., Principal and Director of Environmental Services, will be the Project Manager, the assigned LSRP, and main point of contact for this project. Mr. Turan has over 30 years of experience in the field of environmental engineering and site remediation program. Mr. Turan is a Certified LSRP in the State of New Jersey, and a NJDEP Certified Subsurface Evaluator. Mr. Turan has successfully completed a number of challenging site remediation projects leading to No Further Action Letter determinations from the NJDEP. Mr. Turan also issued a total of fifty (50) RAOs since the initiation of the LSRP Program. Mr. Turan is currently involved in more than seventy (70) site remediation projects under the LSRP Program.

Landfill Engineering Solid Waste Management

CME Associates has implemented a number of projects related to the landfill engineering and solid waste management. CME Associates has specialized expertise in landfill operations, closure, post-closure care and monitoring, and extensive experience in working with the NJDEP, USEPA and ACOE on permitting, compliance, and other regulatory concerns. CME Associates has evaluated the environmental and geotechnical characteristics of landfill cover material for several large landfill closure projects in New Jersey. CME Associates has successfully prepared recycling services for public authorities, landfill closure and post-closure services, ground water monitoring reports, air emissions statements, and conducted landfill gas sampling at various landfills in New Jersey including the Monmouth County

Reclamation Center Landfills, Former Overpeck Landfill, former Bayonne municipal landfill, former ILR landfill in Edison, and former City of Linden Sanitary Landfill, Legler Landfill in Jackson Township, Plainsboro Landfill in Plainsboro. CME Associates has substantial experience in landfill engineering and solid waste management, including landfill engineering and permitting, evaluation of waste reduction, recycling, and collection, development and implementation of landfill closure and redevelopment plans, preparation of landfill disruption permit applications, preparation of landfill closure and post-closure permit applications, preparation of landfill closure and post-closure financial plans, design and monitoring of landfill leachate and groundwater management systems, landfill gas control and gas-to-energy system designs, underslab gas ventilation system designs, and Preparation of the NJDEP Subchapter 8 and Title V air permits for landfill gas collection system and negotiating the conditions of the Title V air permit with USEPA and NJDEP. In Addition, CME Associates provides assistance to its clients for the compliance and monitoring for Title V permits.

Due Diligence Services

In order to avoid potential professional conflicts with respect to notification obligations as well as any problems such notification may cause certain projects, CME Associates will offer independent consulting services for due diligence track related to the environmental site assessment, investigation, and site remediation.

Consulting services related to environmental due diligence for property acquisition and similar projects will be conducted by qualified environmental personnel who are not LSRPs. ARRCs rules do not apply to any person who is conducting due diligence in accordance with N.J.S.A. 58:10C-30d(2). Due diligence work will be performed in accordance with accepted industry and ASTM standards for Phase I and Phase II environmental site assessments. The typical objective of these assessments is to inform a prospective land purchaser of the property



GENERAL INFORMATION ABOUT CME ASSOCIATES ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM

conditions with respect to known or suspected contamination based on diligent inquiry and/or investigation. In order to avoid conflict with notification requirements, LSRPs will have no involvement in due diligence cases. Additional services related to land assessment such as land surveys, green acre surveys, lot yield analyses, asbestos surveys, and wetland evaluations will also be provided along the due diligence track without LSRP involvement.

Site Investigation and Remedial Actions

CME Associates' environmental professionals include engineers and scientists with extensive experience working with the NJDEP Site Remediation Program to successfully close remediation cases. We provide in house consulting services ranging from field investigations to preparation of Remedial Action Workplans, contract specifications, bid documents, and providing remediation oversight. CME Associates has a long tradition of working with county, municipal, and other public entity clients.

CME Associates ensures that investigations of soil and groundwater contamination are conducted in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E). CME Associates tailors the actual work performed for a project to the site specific conditions and any specific conditions imposed by regulatory oversight. CME Associates has significant experience implementing soil and groundwater investigations including preparation of the following documents and implementing the following fieldwork:

- Sampling Plan
- Field Sampling
- Installation of Soil Borings and Groundwater Monitoring Wells
- Ground Water Investigations
- Vapor Intrusion Investigations
- Site Investigation Report
- Baseline Ecological Evaluation
- Remedial Investigation Report
- Health and Safety Plan (HASP)
- Quality Assurance Plan
- Remedial Action Workplan
- Remedial Action Report
- Deed Notice
- Classification Exception Area (CEA)
- Issuance of Response Action Outcome (RAO).

CME Associates has the in-house capabilities to prepare the remediation design documents and construction bid documents for the proposed remedial action. Our firm prepares specifications and bid documents for site preparation, soil erosion and sediment control, remedial implementation, handling and management of contaminated soil and water, and site restoration. Our firm provides detailed engineering cost estimates so that clients can effectively anticipate the financial requirements of a project and evaluate contractor proposals.

Underground Storage Tank Program

CME Associates has significant experience in assisting clients with maintaining compliance with the Underground Storage Tank regulations (NJAC 7:14B). CME Associates provides a comprehensive review of underground storage tank (UST) facilities operated by the client. CME Associates has knowledge in contacting facility operators, the NJDEP Bureau of Underground Storage Tanks (BUST), and the NJDEP Site Remediation Program. Our team has the knowledge to review the necessary databases and State records in accordance with the Open Public Records Act (OPRA). Our firm has years of experience in reviewing the regulatory status of each UST facility pursuant to the Underground Storage Tank regulations (NJAC 7:14B) and the Technical Requirements for Site Remediation (NJAC 7:26E).

CME Associates has many years of experience in outlining the regulatory status of each UST facility to identify the tasks required to bring a facility into regulatory compliance, and prioritize the required response actions.

Our LSRPs prepare initial registrations for any unregistered tanks and amend registration information for any modified UST systems. Our engineers and scientists prepare UST Closure Reports, and perform biennial deed notice and



GENERAL INFORMATION ABOUT CME ASSOCIATES ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM

groundwater CEA reporting requirements for previously remediated sites.

Regulatory Permitting

CME Associates' engineers, environmental scientists, and wetland specialists are experienced in conducting and successfully completing Site Remediation and Land Use permitting tasks. CME Associates staff is knowledgeable in identifying proposed activities for a particular investigation or remediation project, and compiling a list of required permits and approvals. Depending on the particular project, this may include but not necessarily be limited to the following:

- Remedial document approvals (Remedial Investigation Workplan, Remedial Investigation Report, Remedial Action Workplan, Remedial Action Report)
- Issuance of a RAO
- Soil Erosion and Sediment Control Plan certification
- NJPDES Discharge to Surface Water/Groundwater permits
- Air permits for remedial systems
- NJDEP Land Use Regulation permits (Freshwater Wetlands permits, Flood Hazard Area permits, Waterfront Development Permit)
- Army Corps of Engineers permits
- Landfill Closure and Post-Closure Plans and landfill disruption permits.

CME Associates identifies anticipated permitting requirements for each proposed remediation projects.

CME Associates presently has a total staff of 150 people in its five (5) offices in New Jersey (Parlin, Howell, Monmouth Junction, Pleasantville, and Marlton).



Engineering Services

ENGINEERING SERVICES

The following is a list of the types of Engineering Services provided by CME Associates.



CIVIL

- Road Rehabilitation and Construction
- Utility Engineering
- Hydraulic and Sanitary Engineering
- Transportation Studies
- Traffic Engineering
- Structural Engineering
- Storm Drainage Facilities
- Stormwater Management
- Surveying

PLANNING AND LAND USE PERMITTING

- Comprehensive Municipal Master Plans
- Local & County Open Space & Recreation Plans
- Zoning Ordinances
- Urban Design
- Historic Preservation Plans
- Design Guidelines
- Streetscape Designs
- Fiscal Impact Studies
- Build-Out Analysis
- Neighborhood Planning
- Ordinance Preparation
- Grant Writing
- Planning & Zoning Board Representation
- Farmland Preservation Planning

WATER AND WASTEWATER

- Water and Wastewater Treatment Plants
- Co-generation Facilities
- Water Supply, Distribution and Storage Facilities
- Pumping Stations
- Wastewater Collection and Transmission Facilities
- Water & Wastewater Master Plans & Feasibility Studies
- Public/Private Partnership Development
- Federal, State, & Local Permitting
- Hydraulic Capacity Studies
- Sewage Force Mains
- Interceptors & Trunk Sewers
- Urban Redevelopment Planning
- Housing Element & Fair Share Plans
- Transit Village Plans

ENVIRONMENTAL

- Brownfield Redevelopment
- Environmental Site Assessment and Site Investigation
- Regulatory Compliance
- Solid Waste Management
- Landfill Gas-Energy Projects
- Air Quality
- Water Resources Engineering
- Environmental Modeling
- Construction Management
- Wetlands
- Solar and Co-generation Energy Projects

PARKS AND RECREATION

- Synthetic Turf Fields
- Pocket Parks to Regional Facilities
- Swimming Pool Facilities
- Recreational Feasibility Studies
- Skating Facilities
- Facilities for Physically Disabled
- Tennis Centers
- Site Planning
- Track & Field facilities Design
- Athletic Field Lighting

TRANSPORTATION

- Roadway / Highway Design
- Roadway / Highway Reconstruction / Rehabilitation
- Roadway / Highway Mill & Overlay
- Micro-Paving
- Streetscapes
- Pedestrian Crosswalks
- Feasibility Studies
- Bridge Inspection
- Roadway Lighting
- Traffic Impact Studies Review
- Conceptual Intersection Design
- Traffic Impact Study Preparation
- Intersection Signalization

ENGINEERING SERVICES



The following is a list of the types of Engineering Services provided by CME Associates.

GEOTECHNICAL

- Site Feasibility Studies
- Subsurface Explorations
- Foundation Design for Wind Turbines
- Slope Stability and Settlement Analysis
- Sheeting Designs
- Bulkhead Designs
- Installation of Shallow and Deep Foundations
- Control of Embankment Placement
- Retaining Wall Designs

CONSTRUCTION PHASE SERVICES

- On Site Observation of Developments
- Capital Improvement Construction Services
- Value Engineering
- Feasibility Studies and Project Permitting
- Earthwork
- Grading
- Storm Sewers
- Sanitary Sewers
- Force Mains
- Jack & Bore Operations
- Sanitary Sewer Cleaning & Lining
- I & I Studies
- Pumping Stations
- Roadway Reconstruction
- Soil Analysis
- Retaining Walls
- Concrete Reinforcement
- Traffic Signalization
- Parks & Recreational Facilities

MUNICIPAL FORESTRY

- Attain Tree City USA Status
- Community Forestry Management Plans
- Grant Applications for Tree Maintenance / Planting
- Hazardous Tree Survey
- Identification Studies
- Tree Removal / Preservation Ordinances
- Preservation of Trees During Construction

REDEVELOPMENT

- Site Investigation
- NJDEP Brownfields Applications & Grant Remediation
- Funding - Public/Private
- Redevelopment Agreements
- Site Identification and Development
- Infill Redevelopment Planning

HYDRAULIC AND STORM DRAINAGE

- Highway, Roadway, Park & Site Drainage and Stormwater Management Design
- Hydraulic Bridge & Culvert Design
- Storm Sewer System Design
- Detention & Infiltration Basin Design
- Water Quality Systems Design
- Flood Control Design
- Athletic Field Underdrain Systems Design
- Pedestrian & Bike-way Bridge Design
- Stream Cleaning & Restoration Design

COUNTY CONSULTING SERVICES

- Parks and Recreation Facilities Design
- Synthetic Turf Fields
- Recreation Facilities for People w/ Disabilities
- Solid Waste Management
- Recycling
- Energy Management Including Solar Facilities
- Open Space Planning & Evaluation for Acquisition
- Golf Course Management
- Environmental Studies
- Hydrologic & Hydraulic Stream Studies
- Storm Sewer System Design
- Hydraulic Bridge & Culvert Design
- Federal, State, & Local Permitting
- Capital Projects Construction Management
- Transportation Projects

ENGINEERING SERVICES



The following is a list of the types of Engineering Services provided by CME Associates.

MUNICIPAL SERVICES

- Environmental
- Transportation
- Potable Water
- Wastewater
- Hydraulic & Storm Drainage
- Parks & Recreation
- Redevelopment
- Alternative Energy
- Geotechnical Engineering
- Planning & Site Development
- GIS
- Structural Engineering
- Construction Phase Services
- Land Surveying and Tax Map Maintenance
- Landscaping & Forestry Services
- Planning & Zoning Board Project Review

GEOGRAPHIC INFORMATION SYSTEMS

- Parcel Map Preparation
- Environmental Constraints Analysis
- Aerial Photography
- Land Use Mapping
- Utility Mapping
- Open Space & Farmland Preservation Maps
- Municipal Tax Maps & Parcel Based Maps
- Zoning Maps
- Geographic Positioning System (GPS)
Data Acquisition and Analysis

LAND SURVEYING AND TAX MAPS

- Topographic Mapping
- Establishing Horizontal & Vertical Controls
- Utility Surveys
- As-Built Surveys
- Construction Stake Out
- Boundary Surveys
- Title Surveys
- Engineering Surveys
- Green Acres Surveys
- Farmland Preservation Surveys
- Hydrographic Surveying
- Riparian Surveys
- ROW Surveys

LANDSCAPE ARCHITECTURE

- Conceptual Layout & Design of:
Commercial, Residential and Industrial Site
Plans
- Sub-divisions
- Recreation & Park Facilities
- Overall Landscape Designs
- Storm Water Management Planting Design
- Wetland Mitigation / Remediation
- Detailed Planting Plans
- Area & Accent Lighting
- Presentation Plans / Color Rendering

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ENGINEERING SERVICES



Our eight (8) office locations have approximately 270 people as follows:

Administrative	31	Specification Writers	2
Chemical Engineers	1	Structural Engineers	10
Civil Engineers	46	Surveyors	15
Construction Inspectors	28	Transportation Engineers	14
Construction Management	8	Environmental Specialists	15
Electrical Engineers	5	Hydraulic Engineers	6
Estimators	3	GIS	6
Geologists	5	Engineering Technicians	4
Landscape Architects	5	CAD Technicians	5
Mechanical Engineers	8	Environmental Engineers	10
Planners	15	Scientists	1
Sanitary Engineers	25	FAA Certified Drone Pilots	2

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Environmental Services

CME Associates provides a complete range of Environmental Engineering services and has represented both the public and private sectors on a wide range of projects. Environmental consulting services provided include Phase I Preliminary Assessments, Site Investigations, Remedial Investigations, Remedial Actions, Brownfield redevelopment, soil and groundwater investigation, regulatory compliance and environmental permit procurement, on-site monitoring of remediation activities, compliance with the Underground Storage Tank regulations, surface and groundwater management, and solid and hazardous waste management including landfill closure and redevelopment projects.

CME Associates has a highly qualified team of environmental engineers and scientists who are licensed as Professional Engineers, Certified NJDEP Cleanup Stars, Certified UST Closure/ Subsurface Evaluators, and/or N-License Industrial Wastewater Operators. Furthermore, professional staff members receive ongoing training in OSHA standards. The process of site remediation in New Jersey is in a transition period with the adoption of the Site Remediation Reform Act ("SRRA"), N.J.S.A. 58:10C-1 et seq. signed on May 7, 2009, by Governor Jon Corzine into law. The Governor also signed Executive Order #140, implementing the new law. SRRA establishes a program for the licensing of Licensed Site Remediation Professionals ("LSRPs") who will have responsibility for oversight of environmental investigation and cleanup. CME Associates will have a number of qualified LSRPs to implement the site remediation projects.

CME Associates provides Environmental Engineering services for the following comprehensive disciplines:

ENVIRONMENTAL SITE ASSESSMENT

- Phase I (ASTM E 1527-05)
- Preliminary Site Assessments
- Environmental Assessment & Impact Statements
- E.O. 215/ SEQRA
- NEPA Compliance

SITE CHARACTERIZATION AND REMEDIATION

- Site Investigations
- Soil and Groundwater Investigation
- Remedial Investigations
- Ecological Evaluations
- Sediment Investigations
- Hydrogeologic Investigations & Groundwater Modeling
- Remedial Action Workplan and Remedial Action Implementation
- Licensed Site Remediation Professional Services
- Soil and Groundwater Remediation
- ISRA Compliance
- Underground Storage Tank (UST) Program

- NJDEP Cleanup Star Program
- Brownfields Redevelopment Program
- Technical Support for Grant Applications
- Implementation of Remedial Investigations and Remedial Actions
- Preparation of Beneficial Use Determination (BUD) for Recyclable Materials
- Preparation of Applicable Use Determination (AUD) for Dredged Materials
- General Construction Management and Construction Oversight

AIR PERMITTING

- Subchapter 8 Preconstruction Permits for Landfills and New Sources
- Subchapter 22 Operating Permits
- Risk Screening
- Permit Compliance Monitoring, Record-Keeper, and Reporting
- Air Pollution Control Device Evaluation

SOLID WASTE MANAGEMENT

- Engineering and Permitting for Landfills
- Evaluation of Waste Reduction, Recycling, and Collection
- Development and implementation of Closure and Redevelopment Plans
- Preparation of Landfill Disruption Permit Application
- Preparation of Landfill Closure and Post-Closure Permit Application
- Preparation of Landfill Closure and Post-Closure Financial Plans
- Landfill Leachate and Groundwater Management Systems
- Landfill Gas Control and Gas-to-Energy System Design
- Underslab Gas Ventilation System Design

LAND USE MANAGEMENT AND REGULATORY COMPLIANCE

- Preliminary Wetland Evaluations
- Tidal/ Freshwater Wetland Delineation
- Wetland Functional Assessment
- Local/Federal & State Permit Applications
- Wetland Mitigation/Mitigation Banks/ Wetland Monitoring
- Ecological Restoration
- Floodplain Management and Stream Encroachment Permitting
- NJPDES Storm Water/Groundwater Permitting
- EPA Baseline Ecological Evaluations
- Threatened & Endangered Species Surveys
- Macro Invertebrate Benthic Surveys
- Hydrologic Monitoring

SITE ASSESSMENT/INVESTIGATION

CME Associates has extensive experience in performing Preliminary Assessments on agricultural, industrial, commercial, and residential properties in accordance with the NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E), and in general conformance with ASTM Standard Practice for Environmental Site Assessments (ASTM E1527-05). CME Associates has coordinated with various municipal and county government agencies in support of open space acquisition projects. The following projects involving Site Assessment and Investigations are presented as typical examples:

Brookland Properties, Monroe Township, **Middlesex County, New Jersey**

On behalf of the Middlesex County Improvement Authority (MCIA), CME Associates conducted a Preliminary Assessment of two non-contiguous parcels in Monroe. The properties were historically used as farmland and orchards, and are being proposed for open space.

Suydam Property, South Brunswick Township, **Middlesex County, New Jersey**

On behalf of the Middlesex County Improvement Authority (MCIA), CME Associates conducted a Preliminary Assessment of an approximately 30-acre site in South Brunswick. The property was historically used for timber harvesting. The property is being proposed for open space.

Woodbridge Open Space, Woodbridge Township, **Middlesex County, New Jersey**

CME Associates conducted a Preliminary Assessment of three properties totaling over 14-acres in Woodbridge Township for the Middlesex County Improvement Authority (MCIA). The properties consisted of undeveloped woodland with areas of concern including former agricultural fields and possible impacts from off-site contamination. The properties are being proposed for open space.

Finnegans Lane, North Brunswick Township, **Middlesex County, New Jersey**

CME Associates conducted a Preliminary Assessment of a 7.75-acre wooded property for North Brunswick Township that was historically used as farmland. We also conducted a Site Investigation to determine if contaminants related to historic pesticide use were present on the property. The property is proposed for open space under the Green Acres Program.

New Jersey Meadowlands Commission, Secaucus, **Hudson County, New Jersey**

CME Associates conducted a preliminary assessment and prepared a Phase I Environmental Site Assessment Report for a former bowling pin manufacturing facility and automobile tire warehouse in Secaucus, New Jersey. The property is proposed for open space.

New Jersey Meadowlands Commission

Moonachie / Carlstadt, Bergen County, New Jersey

CME Associates conducted a preliminary assessment and site investigation for three (3) vacant parcels totaling over 40-acres in Moonachie and Carlstadt, New Jersey. The properties had areas of concern including historic farm fields and historic fill. The properties are proposed for open space.

New Jersey Meadowlands Commission **East Rutherford, Bergen County, New Jersey**

CME Associates conducted a preliminary assessment for an approximately 22-acre property in East Rutherford, New Jersey. The property is proposed for open space.

Matawan Water Works Facility, Aberdeen Township, **Monmouth County, New Jersey**

On behalf of the Township of Aberdeen, CME Associates conducted a Preliminary Assessment of a former municipal water facility. Areas of concern identified on the property include above ground and underground storage tanks, historic fill, and other historic uses of the property. The property is proposed for redevelopment with an adjacent Brownfield site.

Iselin Fire House, Woodbridge Township, **Middlesex County, New Jersey**

CME Associates conducted a Preliminary Assessment of commercial property for the Woodbridge Township Board of Fire Commissioners. The property is proposed to be redeveloped as a park.

Former Nike Site, Township of Old Bridge, **Middlesex County, New Jersey**

On behalf of the Township of Old Bridge, CME Associates prepared a Preliminary Assessment Report and Site Investigation Report for the former Nike Missile Base site. The property is approximately 41-acres. Portions of the site are proposed to be redeveloped as a commuter parking lot and a recreation area.

Carteret Marina, Borough of Carteret, **Middlesex County, New Jersey**

The Borough of Carteret intends to develop the Carteret Marina site as part of a waterfront development project. CME Associates conducted a Preliminary Assessment and Site Investigation of the property, in accordance with N.J.A.C. 7:26E-3. The Site Investigation

was conducted to evaluate potential contamination in historic fill. In support of the proposed dredging operation, CME Associates conducted a detailed investigation of contaminated sediment in the Arthur Kill. CME Associates also prepared a Waterfront Development Permit and Stream Encroachment Permit for the property.

SITE REMEDIATION & BROWNFIELD REDEVELOPMENT

CME Associates' environmental professionals have extensive experience working with the NJDEP Site Remediation Program to successfully complete remediation projects. CME provides Licensed Site Remediation Professional Services and has several LSRP's on staff. CME Associates has the in-house capabilities to prepare the remediation design documents and construction bid documents for the proposed remedial action. Site remedial investigations and remedial actions are conducted in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E). In providing our environmental services, we streamline site investigations and remediation decisions towards a common goal of striking a balance between environmental regulations and business requirements of our clients. A summary of relevant projects are provided below.

Former South River Metal Products Facility Aberdeen, New Jersey

An abandoned industrial facility on a 13.9 acre site is being redeveloped for residential use. On behalf of Aberdeen Township, CME Associates managed the demolition of the remaining structures and prepared a Remedial Investigation Workplan to evaluate contamination in multiple areas of concern. A Remedial Investigation was conducted, including extensive sampling of soil, groundwater, sediment, and surface water. Funding for the investigations was obtained through a New Jersey Hazardous Discharge Site Remediation Fund (HDSRF) grant.



Former Ernst Zobel Facility Aberdeen, New Jersey

An abandoned industrial facility on a 3.8 acre property is being evaluated for redevelopment. On behalf of Aberdeen Township, CME Associates is coordinating the demolition of the remaining structures and has prepared a Remedial Investigation Workplan to evaluate contamination in multiple areas of concern. Funding for the investigations will be obtained through a HDSRF grant.

Former Reds Marina Highland Park, New Jersey

On behalf of the Middlesex County Improvement Authority, CME Associates provided engineering services for the remediation of an abandoned boatyard and marina on the Raritan River. The work included coordination of demolition activities, a remedial investigation of soil and groundwater, land use permitting, preparation of a Remedial Action Workplan for soil remediation and capping, preparation of contract documents, and management of the remediation. CME Associates secured State HDSRF grants to finance the investigations and remediation. The property is currently preserved as open space and is part of the County park system.

Former Springfield Steel Drum Site Middlesex, New Jersey

On behalf of the Middlesex County Improvement Authority, CME Associates is providing environmental engineering services for the redevelopment of a vacant former industrial site. CME Associates conducted a remedial investigation of contaminated soil and groundwater, and is preparing a Remedial Action Workplan in coordination with a residential site development plan. Funding for the investigations is through a U.S. EPA brownfield assessment grant.

Lee Place Redevelopment Site City of Plainfield, New Jersey

On behalf of the City of Plainfield, CME Associates is performing remedial investigations of contaminated soil and groundwater at the site of a former dry cleaning facility. The property is proposed to be redeveloped for residential use. Funding for the investigations is through a U.S. EPA brownfield assessment grant.

Arlington Avenue Redevelopment Site City of Plainfield, New Jersey

On behalf of the City of Plainfield, CME Associates is performing remedial investigations of contaminated soil and groundwater at the site of a former gas station and strip mall. The property is proposed to be redeveloped for residential use. The work is funded through a State HDSRF grant.

Former Middlesex Bus Co. Site **East Brunswick, New Jersey**

On behalf of the Township of East Brunswick, CME Associates provided engineering services for the remediation of a former bus depot site. The work included a remedial investigation of multiple areas of concern, including an evaluation of contamination in soil, groundwater, sediment, and surface water emanating from the former operations of the USTs. CME Associates prepared a Remedial Action Workplan for site remediation. The investigations were financed through a State HDSRF grant. The property is proposed to be redeveloped for residential use.



Former Middlesex Bus Company Site

Carteret DPW **Carteret, New Jersey**

On behalf of the Borough of Carteret, CME Associates provided engineering services for the construction of a new municipal public works facility at the site of a former wastewater treatment plant. The work included site plan design, land use permitting, and site remediation. CME Associates conducted remedial investigations of contaminated soil and groundwater, prepared a Remedial Action Workplan and contract documents, and managed the site remediation.

Environmental Center **Highland Park, New Jersey**

On behalf of the Borough of Highland Park, CME Associates provided environmental engineering services for the development of a municipal environmental center on a vacant property bordering the Raritan River. The work included a remedial investigation of contaminated historic fill, land use permitting, and preparation of a Remedial Action Workplan for site remediation in coordination with the construction. CME Associates provided field oversight of the remedial work and prepared a Remedial Action Report. The investigations were financed through a State HDSRF grant.

Cranford Crossing Redevelopment Project **Cranford, NJ**

The Cranford Crossing site was redeveloped into a mixed-use commercial and residential building. Historically, a gas station and dry cleaning operation existed on the site and had caused soil and groundwater contamination. The remedial action included the injection of Hydrogen Releasing Compounds into the groundwater and installation of a site-wide cap. On behalf of Cranford Township, CME Associates prepared a Remedial Action Report and obtained a No Further Action letter for the site. CME Associates reports to the NJDEP under the biennial certification program for the Deed Notice and Classification Exception Area to evaluate the attenuation and potential off-site migration of the TCE plume.



Cranford Crossing

Bayonne Golf Club Redevelopment Project **Bayonne, New Jersey**

CME Associates implemented the elements of site remedial actions, prepared a Remedial Action Report and obtained a No Further Action (NFA) letter for the Bayonne Golf Club Redevelopment Site consisted of contaminated Brownfields including the former Bayonne Sanitary Landfill and the former PSE&G site that originally included 46 Areas of Concern (AOCs). CME Associates designed a long term groundwater monitoring network system consisting of thirty-six (36) shallow and deep monitoring wells to evaluate the integrity of natural clay liner and the perimeter containment system. CME Associates provides ongoing services at the site for the post-closure care and maintenance activities including operations of the leachate control system and leachate pre-treatment system, groundwater sampling and monitoring, and landfill gas quality monitoring.



Bayonne Golf Club

SOLID WASTE MANAGEMENT AND LANDFILL REDEVELOPMENT:

CME Associates provides its clients, including municipalities, landfill owners and operators, with solid waste management and landfill engineering services as follows:

- Development and Implementation of Solid Waste Master Plans
- Evaluation of waste reduction, recycling, and collection
- Analysis of treatment and disposal alternatives
- Landfill siting and design
- Solid Waste permitting
- Engineering and Permitting Management during construction and operation of landfills
- Planning, permitting, environmental compliance, engineering, and environmental monitoring
- Integrated management including monitoring of landfill gas and leachate, incorporating treatment, control, and landfill gas utilization.
- Development and Implementation of Closure and Redevelopment Plans

CME Associates was directly responsible for the design, permitting and successful implementation of the following select landfill closure and redevelopment projects:

Overpeck Park Landfill Areas I&IV **Teaneck, Leonia and Palisades Park** **Bergen County, New Jersey**

On behalf of the County of Bergen, CME Associates prepared engineering and construction bid documents for the Closure and Redevelopment of Areas I & IV of the former Overpeck Park Landfill. The redevelopment includes the design of a Passive Recreation Park including miles of pedestrian and equestrian pathways, the stabilization of 4,000 feet of lake bank slopes and the implementation of the Remedial Action Work Plan for the Teaneck Creek Conservancy. The improvements includes the construction of a pedestrian crossing bridge and the replacement of an existing culvert. CME assisted the County of Bergen in obtaining local, state and federal permits for the implementation of the Park Improvements. The construction activities are expected to start in Spring of 2015.

Former Overpeck Landfill / Waste Water & Air Monitoring Compliance Services Bergen County, New Jersey **Bergen County / Department of Parks**

The New Overpeck County Park was constructed on the former Overpeck Landfill, a municipal solid waste landfill in Bergen County, New Jersey. The landfill closure permit requires collection of landfill leachate and disposal to the

Bergen County Utilities Authority (BCUA) through the three (3) pump stations at the site. In addition, sub-slab gas venting systems were installed at the four (4) onsite buildings to prevent the accumulation of landfill gases to potentially dangerous levels.

CME Associates has been providing the necessary professional services for the Operation and Maintenance of the three pump stations. In addition, CME Associates implements a monthly waste water sampling and testing program and reports the wastewater sampling results to the BCUA on their Self-Monitoring Report Forms.

CME Associates also collects air samples from each of the four building gas venting systems and prepares the necessary reports in relation to the air permit requirements.

The City of Linden Sanitary Landfill **Linden, New Jersey**

On behalf of the City of Linden, CME Associates provided engineering and environmental services for the landfill closure and post-closure activities at the City of Linden Sanitary Landfill in Linden, New Jersey. The professionals of CME Associates were directly involved in the design and development of the Landfill Closure and Post-Closure Plans, negotiations with the NJDEP to obtain the necessary approvals, design and providing construction oversight for the engineering control systems including the slurry wall and leachate collection system. CME Associates also provided Quality Assurance services for the landfill closure activities including final capping system and storm water management system. CME Associates designed an active landfill gas extraction and control system with enclosed flare, prepared specification / contract documents, and assisted the City to obtain project financing through the NJEIT. CME Associates prepared permit applications for the active gas collection and treatment system, and obtained the NJDEP Subchapter 8 and Title V air permit approvals. CME Associates has been providing on-going services for the leachate and landfill gas monitoring in accordance with the approved Closure Plan.

Industrial Land Reclaiming Landfill **Edison, New Jersey**

CME Associates provided full environmental engineering services for the proposed redevelopment of a 41 acre portion of the ILR Sanitary Landfill in Edison, New Jersey. Site remediation work included evaluations of the landfill waste and leachate, and investigations of contamination in soil, groundwater, sediment, and surface water. CME Associates prepared a Remedial Action Workplan consistent with the proposed site plan and property end use. CME Associates modified the Landfill Closure and Post-Closure Care Plan for the new development, designed an active landfill gas extraction system for the proposed buildings, and developed a financial plan for the

closure and long-term operation and maintenance of the landfill controls. CME secured all Federal, State, and local permits and environmental approvals for landfill disturbance, coastal and freshwater wetlands impacts, tide-lands, waterfront development, and soil erosion and sediment control.

Former Bayonne Landfill **Bayonne, New Jersey**

The professionals at CME Associates designed landfill closure and redevelopment plans for the former Bayonne Landfill. The professional services included the design and the implementation of the slurry wall, leachate collection and conveyance system, and leachate pre-treatment system, landfill gas collection and control system with enclosed flare. CME Associates provided construction oversight for the implementation of the final cover system including Processed Dredged Materials and clean fill. CME Associates prepared permit applications for the active gas collection and treatment system, and obtained the NJDEP Subchapter 8 and Title V air permit approvals including the negotiations of the final permit conditions with NJDEP. CME Associates designed and provided construction oversight for the underslab gas ventilation system for the Club House. The former Bayonne Landfill site was redeveloped as a part of a private 18-hole Scottish Links golf course.

Former Morris Park Avenue Landfill **Carlstadt, New Jersey**

The professionals at CME Associates designed an active landfill gas control system at the former Morris Park Avenue Landfill for the development of a warehouse distribution center. The gas control system included the following main elements:

- An active gas extraction system for the landfill gas;
- An underslab air venting system capped by a vapor barrier; and
- A monitoring system consisting of methane sensors, transmitters, and receivers.

REGULATORY COMPLIANCE AND PERMITTING

CME Associates identifies anticipated permitting requirements for a particular investigation or remediation project. CME Associates has unique expertise in providing regulatory compliance services regarding the NJDEP Land Use Regulation Program. Typically, these permits may include the preparation of applications for Freshwater Wetlands (N.J.A.C. 7:7A) including wetlands delineation and Letter of Interpretation (LOI), preparation of NJDEP freshwater wetlands general permits, individual

permits, and wetlands functional assessments. Depending on the impact on the regulated wetlands and buffers, compensatory wetlands mitigation may be required. The design of the wetlands mitigation will require environmental characterization, tidal studies, and groundwater monitoring of the particular site to evaluate the site suitability. Certain projects may require Stream Encroachment permit applications in accordance with the N.J.A.C. 7:13. Typically, simple projects may require a General Permit or a Permit-by-Rule application for regulated activities in Flood Hazard Area. For Projects with complex activities, an Individual Permit may be required. A summary of select projects are provided below:

New Jersey Turnpike Authority Interchange 12 Final Improvements Project **Carteret, New Jersey**

On behalf of the New Jersey Turnpike Authority, CME Associates prepared and procured the environmental permits for the NJTA Interchange 12 Final Improvements project including the following project tasks:

- Wetlands delineation and Letter of Interpretation (LOI);
- NJDEP Freshwater Wetlands General Permit Nos. 12 and 14 for site investigation activities;
- An Individual Freshwater Wetlands Permit/ Waterfront Development, Water Quality Certification, Transition Area Waiver and Coastal Consistency;
- Individual Section 10 and 404 Permit from the U.S. Army Corps of Engineers, preparation of wetlands mitigation proposal, and engineering design and construction bid documents for the compensatory wetlands mitigation for approximately 10-acre area including the procurement of NJDEP and ACOE permit approvals.
- Construction oversight for the implementation of the compensatory wetlands mitigation.



Logistics Center

Edison, New Jersey

CME Associates prepared the following permit applications and obtained approvals for the redevelopment of a portion of the ILR Landfill into the 550,000 SF warehouse/office building:

- Wetlands delineation and Letter of Interpretation (LOI);
- NJDEP Freshwater Wetlands General Permit Nos. 12 and 14 for site investigation activities;
- Waterfront Development, Water Quality Certification, Transition Area Waiver and Coastal Consistency

Former South River Metals Redevelopment Site

Aberdeen, New Jersey

CME Associates prepared and procured the following NJDEP permits for the redevelopment of the Former South River Metals Products industrial site in Aberdeen, New Jersey:

- Wetlands delineation; and
- NJDEP Freshwater Wetlands General Permit Nos. 12 and 14 for site investigation activities;

Redevelopment of Former Hess Oil and Gasoline Bulk Storage Facility

Newark, New Jersey

CME Associates prepared and procured NJDEP permits for the redevelopment of a Former Hess Oil and Gasoline Bulk Storage Facility in Newark, New Jersey to a dredge processing facility, including the following:

- Waterfront Development Permit
- Individual Section 10 and 404 Permit from the U.S. Army Corps of Engineers

City of Linden Landfill

City of Linden, New Jersey

CME Associates prepared and obtained the following NJDEP permits:

- Modification to the Waterfront Development Permit
- Freshwater General Permit #5

UNDERGROUND STORAGE TANK PROGRAM

CME Associates has significant experience in assisting clients with maintaining compliance with the Underground Storage Tank regulations (NJAC 7:14B) and the Technical Requirements for Site Remediation (NJAC 7:26E). Our professionals prepare initial registrations for any unregistered tanks and amend registration information for any modified UST systems, UST Closure Reports, and perform biennial deed notice and groundwater CEA reporting requirement for previously remediated sites. A summary of select projects are provided below:

Underground Storage Tank Closure

East Brunswick, NJ

On behalf of the Middlesex County Improvement Authority (MCIA), CME Associates prepared technical specifications and documents, and provided technical oversight for tank closure. CME Associates prepared a Closure Report for an underground storage tank (UST) system at the Tamarack Golf Course Maintenance Facility in East Brunswick Township, NJ. CME Associates conducted a limited site investigation to determine if a 4,000 gallon gasoline storage tank had leaked. CME Associates provided field oversight and subsurface evaluation during tank removal activities. CME Associates confirmed that a product release occurred, reported the release to NJDEP, and implemented the remedial action. CME Associates conducted post-excavation sampling to document that contaminated soil was removed to the applicable remediation standards, and provided oversight during site restoration. CME Associates made recommendations regarding groundwater contamination investigation.

School Avenue Pump Station

Franklin Township, Somerset County

On behalf of Franklin Township Sewerage Authority, CME Associates performed the closure of an underground storage tank (UST) system at the School Avenue Pump Station in Franklin Township. A 1000-gallon UST used to store diesel fuel for an emergency power generator was decommissioned and removed. Post-excavation samples were collected along the centerline of the former tank footprint and directly beneath the underground piping. A UST Closure Report was submitted to NJDEP.

H&L Sheet Metal Works Site

CME Associates conducted a remedial action for the H&L Sheet Metal Works facility located at 119 Lewis Street in Eatontown, New Jersey. The property had a 550-gallon gasoline underground storage tank (UST) that was removed from the site. A Cleanup Star application was submitted for this area of concern (AOC) and a No Further Action (NFA) letter from the NJDEP was received in less than one week.

87 Deerfield Road – Borough of Sayreville

CME Associates conducted a Remedial Action for contaminated soil related to a 550-gallon heating oil UST located at 87 Deerfield Road in the Borough of Sayreville, Middlesex County, New Jersey. The tank and contaminated soil were removed and disposed. A Cleanup Star application was submitted to the NJDEP and a NFA letter was received within two weeks.

Government Client List

GOVERNMENT CLIENTS



CME Associates currently provides, or has previously provided, Municipal and / or Consulting Engineering and Planning Services to the following Governmental Entities.

- Township of Aberdeen
- City of Atlantic City
- Atlantic County Utilities Authority
- Borough of Atlantic Highlands
- Township of Barnegat
- City of Bayonne
- Bayshore Regional Sewerage Authority
- Borough of Beach Haven
- Borough of Beachwood
- Township of Belleville
- County of Bergen
- Bergen County Utilities Authority
- Borough of Bergenfield
- Township of Berkeley
- Berkeley Township Municipal Utilities Authority
- Borough of Berlin
- Township of Bloomfield
- Borough of Bloomingdale
- Township of Bordentown
- Borough of Bradley Beach
- Township of Brick
- Brick Township Municipal Utilities Authority
- City of Bridgeton
- City of Brigantine
- City of Burlington
- County of Burlington
- Burlington County Bridge Commission
- Burlington County Department of Parks
- City of Camden
- County of Camden
- Borough of Carteret
- Carteret Port Authority
- Carteret Redevelopment Agency
- Township of Cranford
- County of Cumberland
- Cumberland County Improvement Authority
- Cumberland County Utilities Authority
- Township of Delran
- Township of Deptford
- Deptford Township Municipal Utilities Authority
- Town of Dover
- Borough of Dumont
- Borough of Dunellen
- Township of East Brunswick
- East Brunswick Utilities Department
- Township of East Greenwich
- Borough of East Newark
- Borough of East Newark - Board of Education
- City of East Orange
- East Orange Water Commission
- Borough of Edgewater
- Township of Edgewater Park
- Township of Edison
- City of Elizabeth
- City of Englewood
- Essex County
- Essex County Improvement Authority
- City of Estell Manor
- Township of Evesham
- Borough of Fair Haven
- Borough of Fair Lawn
- Township of Fairfield
- Borough of Fanwood
- Borough of Flemington
- Township of Florence
- Township of Franklin (Somerset County)
- Township of Franklin (Gloucester County)
- Franklin Township Sewerage Authority
- Borough of Freehold
- Township of Freehold
- Galloway Township
- County of Gloucester
- City of Gloucester
- Gloucester County Improvement Authority
- Gloucester County Health Department
- Gloucester County Utilities Authority
- Township of Haddon
- Borough of Haddon Heights
- Township of Hamilton
- Township of Hamilton Bureau of Water Pollution Control
- Township of Hazlet
- Hazlet Township Sewerage Authority
- Borough of Highland Park
- Borough of Highlands
- Township of Hillsborough

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GOVERNMENT CLIENTS



CME Associates currently provides, or has previously provided, Municipal and / or Consulting Engineering and Planning Services to the following Governmental Entities.

- Township of Holmdel
- Housing Authority of Bergen County
- Township of Howell
- Township of Howell Municipal Utilities Authority
- County of Hudson
- Township of Irvington
- Township of Jackson
- City of Jersey City
- Jersey City Redevelopment Agency
- Jersey City Municipal Utilities Authority
- Joint Meeting of Essex & Union Counties
- Borough of Keansburg
- Borough of Keyport
- Township of Lacey
- Borough of Lake Como
- Township of Lakewood
- Lakewood Municipal Utilities Authority
- Borough of Lavallette
- City of Linden
- Township of Little Falls
- Township of Lumberton
- City of Long Branch
- Township of Manalapan
- Borough of Manasquan
- Township of Mantua
- Township of Maple Shade
- Township of Maplewood
- Township of Marlboro
- Township of Marlboro Water Utility Division
- Borough of Matawan
- Mercer County Park Commission
- County of Mercer
- Borough of Metuchen
- Township of Middle
- County of Middlesex
- Middlesex County Improvement Authority
- Middlesex County Utility Authority
- Township of Millburn
- Township of Millstone
- Borough of Milltown
- County of Monmouth
- Borough of Monmouth Beach
- Township of Monroe (Middlesex County)
- Township of Montclair
- Town of Morristown
- Township of Mount Holly
- Township of Mount Laurel
- Township of Neptune
- Neptune Township Sewerage Authority
- City of Newark
- City of New Brunswick
- State of New Jersey
- New Jersey Department of Transportation
- Township of North Brunswick
- County of Ocean
- Township of Ocean
- Township of Ocean Sewerage Authority
- Township of Old Bridge
- Old Bridge Municipal Utilities Authority
- Borough of Palmyra
- Borough of Paulsboro
- Township of Pemberton
- Pemberton Township Municipal Utilities Authority
- City of Plainfield
- Plainfield Municipal Utilities Authority
- Township of Plainsboro
- City of Pleasantville
- Township of Piscataway
- Borough of Point Pleasant Beach
- Point Pleasant - Board of Education
- Point Pleasant Boro
- City of Rahway
- Rahway Valley Sewerage Authority
- Borough of Red Bank
- Township of Riverside
- Borough of Roselle Park
- Borough of Rumson
- County of Salem
- Salem County Pollution Control Finance Authority
- Borough of Sayreville
- Borough of Sayreville Board of Education
- Borough of Seaside Park
- SERA – Sayreville Economic Redevelopment Agency
- Borough of Scotch Plains
- County of Somerset

GOVERNMENT CLIENTS



CME Associates currently provides, or has previously provided, Municipal and / or Consulting Engineering and Planning Services to the following Governmental Entities.

- City of South Amboy
- South Amboy Redevelopment Agency
- Township of Southampton
- Borough of South Bound Brook
- Township of South Brunswick
- South Monmouth Regional Sewerage Authority
- Borough of South Plainfield
- Borough of South River
- Borough of Spotswood
- Township of Stafford
- Township of Stafford Water and Sewer Utility Department
- City of Summit – Board of Recreation
- County of Sussex
- Borough of Tinton Falls
- Township of Toms River
- City of Trenton
- Township of Union
- City of Union City Board of Education
- County of Union
- Union County Utilities Authority
- Union County Improvement Authority
- Township of Upper Freehold
- Township of Voorhees
- Township of Wall
- Borough of Watchung
- Township of Waterford
- Township of West Deptford
- Town of West New York
- Township of West Orange
- Township of Westampton
- Western Monmouth Utilities Authority
- City of Wildwood
- Borough of Wildwood Crest
- Township of Willingboro
- Township of Winslow
- Winslow Township School Board
- Township of Woodbridge
- Borough of Woodland Park
- New Jersey Meadowlands Commission
- New Jersey Turnpike Authority – (Turnpike and Garden State Parkway Divisions)
- State of New Jersey Rate Payer Advocate

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Awards

AWARDS



RECREATION FACILITY AWARDS

CME Associates has been recognized by various park and recreational organizations for excellence in design.

NEW JERSEY RECREATION AND PARK ASSOCIATION

2021 EXCELLENCE IN DESIGN AWARD

CME Associates was awarded the Excellence in Design Award for the Improvements to Bayside Park, located in Brick, New Jersey

2021 EXCELLENCE IN DESIGN AWARD

CME Associates was awarded the Excellence in Design Award for the Improvements to Cypress Park Park, located in Woodbridge, New Jersey

2020 EXCELLENCE IN DESIGN AWARD

CME Associates received the Excellence in Design Award for the Improvements to Bernie Cooke Park, located in Brick, New Jersey

2019 EXCELLENCE IN DESIGN AWARD

CME Associates received the Excellence in Design Award for Trailside Nature and Science Center at Watchung Reservation, located in the County of Union

2018 EXCELLENCE IN DESIGN AWARD

CME Associates received the Excellence in Design Award for Bay Front Park, located in Lacey Township , NJ

2018 EXCELLENCE IN DESIGN AWARD

CME Associates received the Excellence in Design Award for Veterans Park, located in Edgewater, NJ

2018 EXCELLENCE IN DESIGN AWARD

CME Associates received the Excellence in Design Award for Cedar Grove Park, Essex County's newest county park located in Cedar Grove, NJ

2015 EXCELLENCE IN DESIGN AWARD

CME Associates received the Excellence in Design Award for Diamonds at Arrowhead Park, located in Evesham Township, NJ.

The Robert B. Kinsey Memorial Award is given each year by the NJ Recreation and Park Association at their Annual Conference in recognition of Design Excellence.

2010 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class II, for the Manalapan Recreation Center Expansion, located in the Township of Manalapan, Monmouth County, NJ

2008 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class IV for the Marina Area Improvements, located in Mercer County Park, Mercer County, NJ.

2007 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class II for Rowland Park, located in the Township of South Brunswick, Middlesex County, New Jersey.

2007 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, class iii for the river rd. waterfront park, located in the Borough of Sayreville, Middlesex County, New Jersey.

2005 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class II for the Marlboro Aquatic Center, located in the Township of Marlboro, Monmouth County, New Jersey.

2005 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class III for the Fragrance and Sensory Garden located in the Township of South Brunswick, Middlesex County, New Jersey.

2004 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class IV for the Level Playing Fields and Family Ice Skating Facility, located in Middlesex County's Roosevelt Park. The award is given each year by the New Jersey Recreation and Park Association at their Annual Conference.

2004 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class III, for the Kennedy Park Skate Park, a 10,000 sf concrete skate park located in the Borough of Sayreville.

2005 MONMOUTH COUNTY BOARD OF RECREATION COMMISSIONERS AWARD

CME Associates received the 2005 Charles M. Pike Award for facility design for the Marlboro Aquatic Center, located in the Township of Marlboro, from the Monmouth County Board of Recreation Commissioners.

2004 GOVERNOR'S AWARD

On May 18, 2004, CME Associates received the Ruth Hughes Innovative Accessible Recreation Facility Award at the Annual Governor's Conference for Individuals with Disabilities for the Level Playing Fields at Roosevelt Park, Edison, NJ.

AWARDS



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NJ SOCIETY OF MUNICIPAL ENGINEERS

CME Associates is dedicated to providing quality project solutions for its clients, and has been recognized by the *New Jersey Society of Municipal Engineers* at its Annual Awards Presentation for a number of projects as follows:

2022

Township of Holmdel
Holmdel Firehouse

City of Bayonne
Improvements to Frances G Fitzpatrick Park

Borough of Highland Park
Highland Park Synthetic Turf and Track Resurfacing

2021

Township of Franklin
Construction of the Franklin Township Youth Center

Township of Woodbridge
Cypress Park

2020

Borough of Sayreville
Management of a Green Energy Solution aka
Sayreville Solar Project

Township of Marlboro
Harbor Road Water Treatment Plant

Borough of Carteret
Construction of the Carteret Municipal Marina
Phase II & III

City of Bayonne
Improvements to Dennis Collins Park

Township of Aberdeen
Failing Septic System Eliminated in Aberdeen

2019

Township of Aberdeen
Raritan Bay Asphalt Trail

Borough of Highlands
Improvements to Valee Street

Township of Brick
Improvements to Bernie Cooke Park

County of Union
Trailside Nature and Science Center at Watchung
Reservation

2018

Township of Lacey
Reconstruction of Bayfront Park

City of Bayonne
Improvements to Richard Korpi Ice Rink

City of Rahway
Improvements to the Rahway Water Treatment Plant

2017

Township of Brick
Facilities Improvement Project

Borough of Sayreville
Sayreville's Choice for Water for the New Generation

The Reconstruction of Veterans Field
Borough of Edgewater

Firehouse Management Project
Borough of South River

2016

Borough of Milltown
Electrical Substation Construction

Town of West New York
Improvements to Veterans Park

Township of Piscataway
Department of Public Works Vehicle Canopy Project

2015

Township of Woodbridge
Avenel Street Improvements

Township of Marlboro
Tennent Road Water Treatment Plant

Township of Delran
Delran Community Park

Township of Manalapan
Splash Pad and Comfort Building

2014

Township of Evesham
Diamonds at Arrowhead Park

County of Middlesex
Intersection of Bordentown Ave. and Ernston Rd.

AWARDS



Borough of Milltown
Improvements to South St.

Borough of Sayreville
Sayreville Water Treatment Plant Expansion

Township of Plainsboro
Mapleton Rd. Improvements

2013

Township of Stafford
Ocean Acres stormwater Management Investigation

Township of Manalapan
Iron Ore Rd., High Bridge Rd., Mount Vernon Rd.,
Intersection Improvements

Township of Woodbridge
Fulton Street Improvements

Town of West New York
Improvements to Dewey and Fillmore Parks

Township of Aberdeen
Solar Energy Savings Program

2012

Borough of Carteret
Construction of the Carteret Recreation Pier

Borough of Carteret
Improvements to Sullivan Field

Borough of South River
Water Treatment and Supply Improvement Project

Borough of Milltown
Management of a Flood Prone Essential Utility -
Milltown Electrical Substation

2011

Township of South Brunswick
Improvements to Route 522 - Section 5B

Borough of Carteret
Waterfront Redevelopment Project

Township of East Brunswick
Heavenly Farms Ball field for Children with Special Needs

Township of North Brunswick
Belcourt Water System Improvements

2010

Borough of Milltown
Electrical Transformer Replacement

Township of Plainsboro
Dey Rd. & Scudders Mill Rd. Intersection Improvements

Borough of Sayreville
Waterfront Redevelopment Management

Township of Manalapan
Scout Lake at Holiday Park Improvements

2009

Borough of Dunellen
McCoy Park

Borough of Milltown
Multi Phased Water System Improvements – Phase IV

Township of Aberdeen
Brownfield Management Project

2008

Borough of Sayreville
NL Redevelopment Site

Township of Plainsboro
Intersection of Dey Rd. and Scudders Mill Rd.

Township of North Brunswick
Community Park

2007

Borough of Sayreville
Neptune RTS Redevelopment Management Project

Township of Plainsboro
Scotts Corner Rd. Pedestrian Improvements

2006

Borough of Milltown
Replacement of the Church Street Pump Station

Borough of Sayreville
Management of the Strip Mine Reclamation Project -
Utilizing Compost

2005

Township of South Brunswick
Veteran's Park Sensory Garden

2004

Borough of Sayreville
Sayreville Water Treatment Plant

Borough of Milltown
Stormwater Management Plan

Borough of South River
Recreation Management Plan

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AWARDS



2003

Borough of Milltown
Milltown Pool

Borough of Sayreville
Kennedy Park Skate Park

2002

Township of Plainsboro
Birth of a Village Towne Center

2001

Township of Aberdeen
Water System Management Project
Township of Aberdeen
Sewage Pumping Station Rehabilitation

Borough of Sayreville
Economic Development Via Water Resource Management

Township of Jackson
Recreation Master Plan Element

2000

Township of South Brunswick
Growth Control via Open Space Acquisition

Township of Plainsboro
Improvements to the Plainsboro Pond Dam

1999

Township of South Brunswick
Multi Phase Water System Management Project

1998

Borough of Sayreville
Sayreville Landfill III Superfund Site Closure Project

1997

Township of Plainsboro
Transportation Improvement Project Management Plan
Township of Plainsboro

Managing the Rehabilitation of a Critical Resource
(a.k.a. Improvements to the Plainsboro Pond Dam)

1996

Borough of Sayreville
Crossway Creek Environmental Improvements

1995

Borough of Milltown
Multi-Phased Water System Improvements

Borough of Sayreville
Public-Private Partnership Sayreville/Duhernal Water
Supply System

Borough of Sayreville
Reducing Recreational Costs through Public Partnerships,
Morgan Waterfront Park

1994

Borough of Sayreville
Hazardous Site Mitigation and Remediation Project -
Soccer Field Complex

Borough of Sayreville
Improvements to the Morgan Water Treatment Plant
Backwash System

1993

Borough of Sayreville
Sayreville Recreational Soccer Field Complex

1992

Borough of Sayreville
Improvements to Burkes Park

Borough of Sayreville
Replacement of the Pulaski Avenue 3.0 MG Standpipe

1991

Borough of South River
UST Management Program

Borough of Sayreville
Morgan Recreational Improvements - Phase I

1990

Borough of Sayreville
Kennedy Park Tot Lot Improvements

Borough of Milltown
Roadway System Evaluation

1989

Borough of Sayreville
Water and Wastewater System Master Plans

Borough of Helmetta
Wastewater Collection System

Borough of Sayreville
South Bay Wastewater Collection System and Pumping
Stations

1988

Borough of Sayreville
Kennedy Park Lake Restoration

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AWARDS



NATIONAL ASSOCIATION OF CLEAN WATER AGENCIES (NACWA)

2012 OPERATIONS AND ENVIRONMENTAL PERFORMANCE AWARD

CME Associates was honored with a 2012 National Environmental Achievement Award from the National Association of Clean Water Agencies (NACWA) at the organization's award ceremony on Feb.13, in Los Angeles, Calif. CME Associates was recognized with an Operations and Environmental Performance Award for its Cogeneration Facility, which is credited with significant environmental and cost benefits.

PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE (PEPP)

2012 PROFESSIONAL DEVELOPMENT AWARD

CME Associates received the Professional Development Award from the PEPP (Professional Engineers in Private Practice) at their Annual Awards Dinner held in San Diego, CA on July 13, 2012. Since 1960, NJSPE has used this award to recognize engineering employers who have made significant contributions to the advancement and improvement of engineering practices.

NEW JERSEY SOCIETY OF PROFESSIONAL ENGINEERS (NJSPE)

2012 PRIVATE PRACTICE DEVELOPMENT AWARD

CME Associates received the Private Practice Professional Development Award from the NJSPE at their Annual Awards and Installation Reception held at Trenton Country Club on June 7, 2012. The Award is presented to the nominated private practice firm, employing engineering personnel, that has made the most outstanding contribution to the advancement and improvement of the engineering profession through its policies and practices.

ASSOCIATION OF ENVIRONMENTAL AUTHORITIES

2010 WAVE AWARD FOR ENERGY SAVINGS

CME Associates designed and constructed a Co-generation of heat and power facility at the Joint Meeting of Essex and Union Counties wastewater treatment plant. The project was recognized for energy savings at the 2010 Annual Meeting of the AEANJ on March 11, 2010.

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Firm References List

REFERENCES



TOWNSHIP OF ABERDEEN

Bryan A. Russell, QPA • Township Manager • 732-583-4200

BOROUGH OF ATLANTIC HIGHLANDS

Adam Hubeny • Administrator • 732-291-1444

TOWNSHIP OF BARNEGAT

Martin Lisella • Township Administrator • 609-698-0080

CITY OF BAYONNE

Mayor James Davis • 201-858-6010

TOWNSHIP OF BERKELEY MUNICIPAL UTILITIES AUTHORITY

Michele Nugent • Executive Director • 732-237-0100

TOWNSHIP OF BRICK

Joanne Bergin • Business Administrator
732-262-1040

COUNTY OF BERGEN

Joseph A. Femia, P.E. • Director of Planning & Engineering
201-336-6808

BURLINGTON COUNTY BRIDGE COMMISSION

Joseph Andl • Executive Director • 856-829-1900

BURLINGTON COUNTY DEPARTMENT OF PARKS

Matt Johnson,
Coordinator of Open Space Acquisition and Park
Development • 609.265.5858

CITY OF CAMDEN

Orion Joyner, Acting City Engineer • 856-757-7680
Vic Carstarphen • Mayor • 856-757-7200

COUNTY OF CAMDEN

Kevin Becica, PE • County Engineer • 856-566-2971

BOROUGH OF CARTERET

Mayor Daniel J. Reiman • 732-541-3800

COUNTY OF BURLINGTON

Joseph Brickley, PE • County Engineer • 856-642-3700

CUMBERLAND COUNTY IMPROVEMENT AUTHORITY

Gerard Velazquez III • Executive Director • 856-825-3700

TOWNSHIP OF DELRAN:

Jeffrey Hatcher • Business Administrator • 856-461-7734

TOWNSHIP OF DEPTFORD

Donald Banks • Director of Community Development
856-686-2218

DEPTFORD TOWNSHIP MUA

Michael Cusick • Executive Director • 856-415-1111

TOWN OF DOVER - MORRIS COUNTY

Mayor Carolyn Blackman • 973-366-2200

BOROUGH OF DUNELLEN

Mayor Jason Cilento • 732-968-3033

TOWNSHIP OF EAST BRUNSWICK

Joseph Criscuolo • Business Administrator
732-390-6810

TOWNSHIP OF EAST GREENWICH

Mayor Dale Archer • 856-423-0654

BOROUGH OF EDGEWATER

Gregory Franz • Administrator • 201-943-1700

TOWNSHIP OF EDISON

Maureen Ruane • Administrator • 732-287-0900

CITY OF ELIZABETH

Steven Rinaldi • City Land Surveyor • 908-820-4278

ESSEX COUNTY DEPARTMENT OF PARKS, RECREATION AND CULTURAL AFFAIRS

Daniel K. Salvante • Director • 973-268-3517

TOWNSHIP OF EVESHAM

Kevin Rijs • Director of Community Development
856-983-2914

BOROUGH OF FANWOOD

Mayor Colleen Mahr • 201-288-2600

TOWNSHIP OF FRANKLIN (SOMERSET COUNTY)

Robert Vornlocker • Township Manager • 732-873-2500

TOWNSHIP OF FRANKLIN (GLOUCESTER COUNTY)

Richard Wright • Business Administrator • 856-694-1234

FRANKLIN TOWNSHIP SEWERAGE AUTHORITY

Joseph Daniels • Executive Director • 732-873-2121

BOROUGH OF FREEHOLD

Stephen Gallo • Business Administrator • 732-462-4200

TOWNSHIP OF GALLOWAY

Chris Johansen, Township Manager, 609-652-3700

COUNTY OF GLOUCESTER

Vincent M. Voltaggio, P.E. • County Engineer
856-307-6600

REFERENCES



GLOUCESTER COUNTY HEALTH DEPARTMENT

Matthew Olejarski, Principal REHS
856-218-4170

GLOUCESTER COUNTY IMPROVEMENT AUTHORITY

George Strachan, Executive Director • 856-825-3700

GLOUCESTER COUNTY UTILITIES AUTHORITY

John Vinci, Sr. • Executive Director • 856-423-3500

TOWNSHIP OF HAZLET

Dennis Pino • Administrator • 732-264-1700

BOROUGH OF HIGHLAND PARK

Teri Jover • Borough Administrator • 732-819-3789

BOROUGH OF HIGHLANDS

Michael Muscillo • Borough Administrator • 732-872-1224

TOWNSHIP OF HILLSBOROUGH

Anthony Ferrera • Administrator/Clerk • 908-369-4313

TOWNSHIP OF HOLMDEL

Cherron Rountree • Administrator • 732-946-2820 ext 1205

TOWNSHIP OF HOWELL

Brian Geoghegan • Township Manager • 732-938-4500

JERSEY CITY MUNICIPAL UTILITIES AUTHORITY

Jose Cunha • Executive Director • 201-432-1150

JOINT MEETING OF ESSEX AND UNION COUNTIES

Hanifa Johnson • Executive Director • 732-353-1313

BOROUGH OF KEYPORT

Mayor Collette Kennedy • 732-739-5120

BOROUGH OF LAKE COMO

Louise Mekosh • Borough Clerk / Administrator
732-681-3232

LAKESWOOD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

Justin Flancbaum, Executive Director, 732-363-4422

LINDEN-ROSELLE SEWERAGE AUTHORITY

Jeffrey Williams • 908-862-7100

CITY OF LONG BRANCH

George Jackson • Administrator • 732-571-5645

TOWNSHIP OF LUMBERTON

Nicholas Peditto • Acting Administrator • 609-267-3217

TOWNSHIP OF MAPLEWOOD

Paul Kittner • Township Engineer • 973-762-8120

TOWNSHIP OF MANALAPAN

Tara Lovrich • Township Administrator • 732-446-8305

TOWNSHIP OF MAPLE SHADE

Susan Danson • Township Manager • 856-779-9610

TOWNSHIP OF MARLBORO

Jonathan Capp • Business Administrator • 732-536-0200

MERCER COUNTY PARK COMMISSION

Aaron Watson • Executive Director • 609-303-0700

MIDDLESEX COUNTY

Ronald Sendner, P.E. • Acting County Engineer •
732-745-3283

MIDDLESEX COUNTY IMPROVEMENT AUTHORITY

H. James Polos • Executive Director • 609-655-5141

MIDDLESEX COUNTY UTILITIES AUTHORITY

Joe Cryan • Executive Director • 732-721-3800

TOWNSHIP OF MIDDLETOWN

Anthony Mercantante • Township Administrator •
732-615-2010
Ted Maloney • Township Engineer • 732-615-2110

BOROUGH OF MILLTOWN

Mayor Trina Mehr • 732-828-2100

MONMOUTH COUNTY

Joseph Ettore, P.E. • County Engineer • 732-431-7760

TOWNSHIP OF MONROE

Mayor Stephen Dalina • 732-521-4400

TOWNSHIP OF MOUNT LAUREL

Meredith Tomczyl • Municipal Clerk / Township Manager
856-234-0001

TOWNSHIP OF NEPTUNE

Leanne Hoffman • Township Engineer • 732-988-5200

NEW JERSEY TURNPIKE AUTHORITY (Garden State Parkway Division)

Robert J. Fischer • Assistant Chief Engineer, Design •
732-442-8600

NJDOT LOCAL AID DESIGN ASSISTANCE PROGRAM

Julie Seaman • Division Office • 609-963-2004

TOWNSHIP OF NORTH BRUNSWICK

Mayor Francis "Mac" Womack • 732-247-0922

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REFERENCES



TOWNSHIP OF OCEAN SEWERAGE AUTHORITY

William B. Schmeling • Executive Director • 732-531-2213

TOWNSHIP OF OLD BRIDGE

Himanshu Shah • Business Administrator • 732-721-5600

OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY

Michael Roy, P.E. • Authority Engineer • 732-679-8565

BOROUGH OF PALMYRA

John Gural, CPM • Borough Administrator • 856-829-6100

TOWNSHIP OF PISCATAWAY

Mayor Brian Wahler • 732-562-2300

TOWNSHIP OF PLAINSBORO

Mayor Peter Cantu • 609-799-0909

CITY OF PLEASANTVILLE

Jesse Tweedle • Mayor • 609-484-3610

Linda Peyton • City Administrator • 609-484-3603

BOROUGH OF POINT PLEASANT

Mayor Robert A. Sabosik • 732-892-3434

BOROUGH OF RED BANK

Darren McConnell • Interim Administrator • 732-530-2748

BOROUGH OF SAYREVILLE

Dan Frankel • Business Administrator • 732-390-7050

BOROUGH OF SAYREVILLE BOARD OF EDUCATION

Erin Hill • Business Administrator • 732-525-5204

BOROUGH OF SEASIDE PARK

Sandy Rice • Administrator • 732-793-3700

COUNTY OF SOMERSET

Matthew D. Lopez, PE • County Engineer • 908-231-7024

CITY OF SOUTH AMBOY

Mayor Fred Henry • 732-727-4200

BOROUGH OF SOUTH BOUND BROOK

Christina Fischer • Administrator • 732-356-0258

TOWNSHIP OF SOUTH BRUNSWICK

Bernie Hvozdovic • Township Manager • 732-329-4000

SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY

Ryan Krause • Executive Director • 732-681-0611

BOROUGH OF SOUTH PLAINFIELD

Glenn Cullen • Administrator • 908-226-7602

BOROUGH OF SOUTH RIVER

Mayor John Krenzel • 732-257-1999

BOROUGH OF SPOTSWOOD

Mayor Jackie Palmer • 732-251-0700 ext 821

TOWNSHIP OF TOMS RIVER

Robert J. Chankalian, PE, CME • Township Engineer • 732-341-1000

UNION COUNTY UTILITIES AUTHORITY

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TOWNSHIP OF VOORHEES

Lawrence Spellman, Esq. • Township Administrator • 856-429-7174

TOWNSHIP OF VOORHEES ENVIRONMENTAL COMMISSION

Edward Hale • Chairman • 856-429-7757

TOWNSHIP OF WALL

Jeffry Bertrand • Township Administrator • 732-449-8444

BOROUGH OF WATCHUNG - SOMERSET COUNTY

Mayor Keith S. Balla • 908-756-0080

TOWNSHIP OF WESTAMPTON

Maria Carrington • Township Administrator • 609-267-1891

WESTERN MONMOUTH UTILITIES AUTHORITY

Jeff Rosen • Chairman • 732-446-9300

CITY OF WILDWOOD

Steve O'Connor • City Administrator • 609-846-2046

TOWNSHIP OF WINSLOW

Joseph Gallagher • Township Administrator • 609-567-0700

TOWNSHIP OF WINSLOW BOARD OF EDUCATION

Tyra McCoy-Boyle • Business Administrator • 856-767-2850 ext. 7501

TOWNSHIP OF WOODBRIDGE

Mayor John E. McCormac • 732-634-4500

Section 4. Relevant Experience and References



Key Solid Waste Projects

GLOUCESTER COUNTY SOLID WASTE COMPLEX

SOUTH HARRISON TOWNSHIP, NEW JERSEY



GLoucester County Solid Waste Complex

South Harrison Township, Gloucester County

Client: Gloucester County Improvement Authority
Contact: Thomas H. Sullivan, CPM, SWC Administrator
Phone: (856) 478-6045, ext. 20
Project Dates: April 2015 - Present

PROJECT DESCRIPTION:

Gloucester County Solid Waste Complex (GCSWC) includes a sanitary landfill, approximately 163 acres in extent and associated structures. CME Associates was retained to provide engineering and environmental services as the Solid Waste Engineer of record to Gloucester County Improvement Authority (GCIA) for the sanitary landfill at the GCSWC. CME Associates completed and continues to perform the following tasks to achieve and maintain compliance:

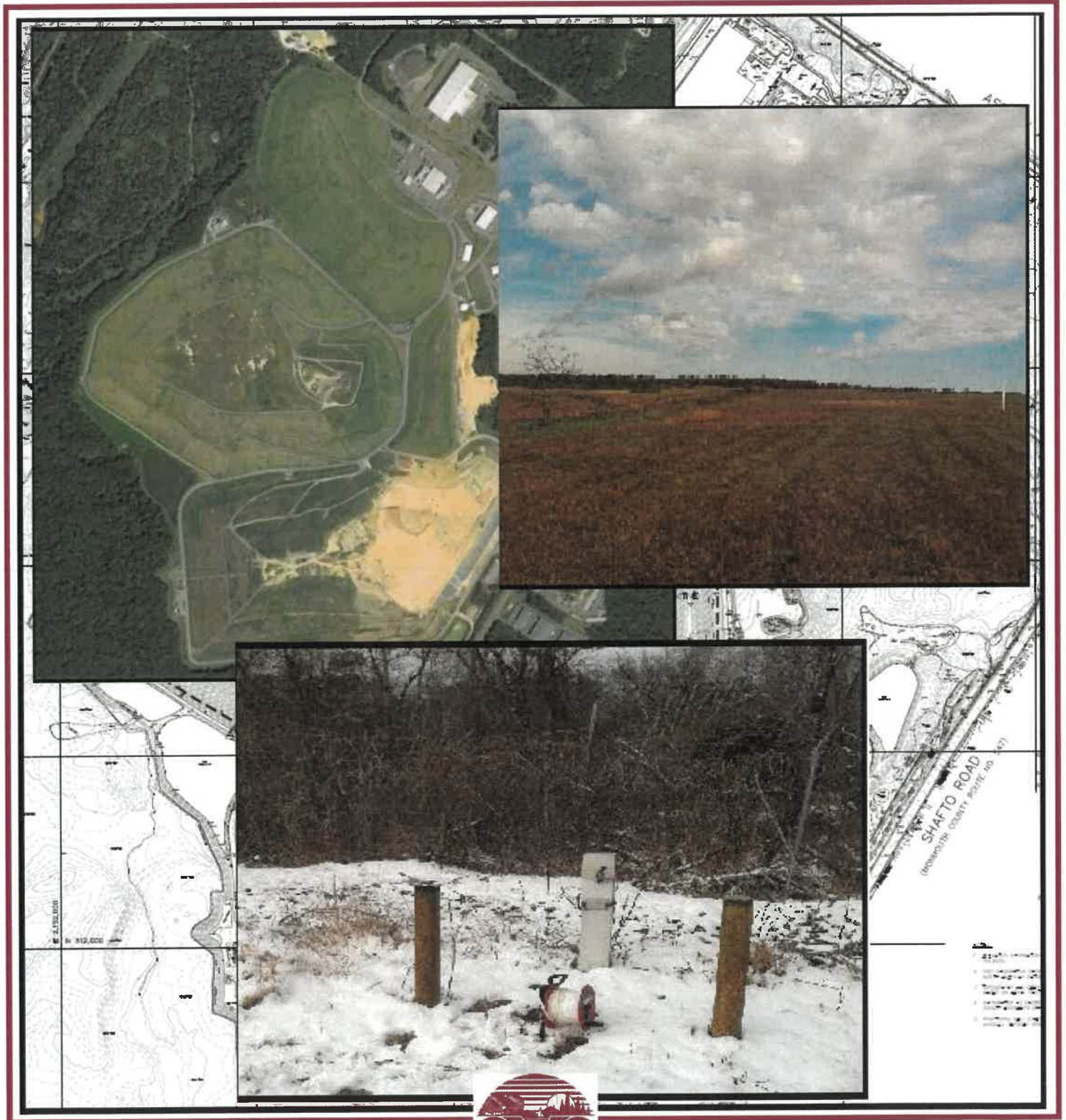
- Provide engineering and environmental services to the GCIA for the landfill operations, closure and post-closure activities including landfill perimeter and surface emissions monitoring for methane and monthly Landfill Gas (LFG) quality/flow measurements.
- Provided landfill engineering design services for the construction of a new cell (Cell 13), which is approximately 10.5 acres.
- Assisted the GCIA with submitting a NJEIT loan application for the construction of Cell 13.
- Assisted GCIA with Title V Air Pollution Control Operating Permit renewal and meeting compliance requirements associated with emissions testing on the flare inlet and related reporting to NJDEP.
- Preparation of the update for the Closure and Post-Closure Financial Plan.
- NJPDES permit compliance assistance. Completed a statistical analysis of groundwater analytical data samples to identify statistically significant increases of targeted analytes in monitoring wells downgradient of the landfill over background concentrations. The analysis was completed in accordance with the requirements of a Groundwater Protection Program Plan (GWPP) prepared pursuant to 40 CFR 258.
- NJPDES permit compliance assistance. Performed a statistical analysis on stormwater analytical data associated with detention basins.
- Provide fill review services for determining acceptable use of soil materials for use as alternative daily cover (ADC), and for disposal at the GCSWC.
- Provided engineering design services for corrective actions related to the failed stormwater conveyance system.



Consulting & Municipal
ENGINEERS

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732.727.8000 • www.cmeusa1.com

MONMOUTH COUNTY RECLAMATION CENTER TINTON FALLS, NEW JERSEY



DEFINED AND ON-CALL PROFESSIONAL SOLID WASTE MANAGEMENT AND ENVIRONMENTAL ENGINEERING, PLANNING AND SURVEYING SERVICES IN CONNECTION WITH THE OPERATION AND PERMITTING OF THE MONMOUTH COUNTY DIVISION OF RECLAMATION FACILITIES

Client: Monmouth County Department of Public Works & Engineering
Contact: Matthew Rutkowski
Phone: (732) 683-8686

PROJECT DESCRIPTION:

CME Associates provides the County of Monmouth with defined and on-call professional solid waste management and environmental engineering, planning and surveying services in connection with the operation and permitting of the Monmouth County Reclamation Center and related facilities. The Monmouth County Reclamation Center (MCRC) consists of the following facilities:

- Materials Processing and Recovery Facility,
- Phase I, II, and III Landfills
- Tinton Falls facilities that operate under various New Jersey Department of Environmental Protection, USEPA and Army Corp of Engineers permits
- Post-closure care and monitoring of Howell Landfill in Howell Township
- Post-closure care and monitoring of Belford Landfill in Middletown Township

CME Associates provides the following environmental engineering services under the defined tasks:

- Semiannual ground water protection program compliance reports for MCRC
- Semiannual ground water contour map for both the upper Kirkwood and Vincentown Aquifers
- Quarterly Shewhart-CUSUM Control Charts and a letter report
- Annual Compliance Statement, Semiannual Deviation Reports, Annual Emission Statement, Annual Greenhouse Gas Report for the MCRC Title V Operating Permit for the year 2014
- Quarterly letter report and monitoring location map for the results of perimeter gas testing at Howell Landfill
- Semiannual letter report for the results of laboratory gas testing from three gas vents at Howell Landfill
- Annual topographic report for the approximate 266-acre area of the Phase I, II and III landfills as required by N.J.A.C. 7:26-2A.8(i) for submission to the NJDEP

In addition, CME Associates provides the Monmouth County with the necessary professional engineering, planning and surveying consulting services in support of the ongoing operation and closure of the Monmouth County Reclamation Center and related facilities.



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Bayonne Golf Club Redevelopment Site



Bayonne Golf Club, involved the remediation and closure of the former Bayonne Sanitary Landfill and the former PSE&G Site in the Constable Hook area of the City of Bayonne, New Jersey. These contaminated brownfield sites were redeveloped into a Scottish-style 18-hole course with a public waterfront walkway, 2-acre marina and state-of-the-art club house.

ICON Engineering has been the engineer for the design, construction oversight, and operation of the landfill closure and remedial systems of this site. Closure activities have included the installation of a perimeter vertical hydraulic barrier (slurry wall/sheet pile wall) keyed into an underlying continuous confining layer; a leachate collection and pre-treatment system; an active gas collection and treatment system; and a low permeability 2-foot PDM cap with a clean fill cover. This project is a landmark Beneficial Use Project with the placement of over 5 million cubic yards of Beneficial Reuse Materials, including various approved types of recyclable materials and processed dredged material (PDM). In addition, ICON Engineering has provided geotechnical investigation and testing, slope monitoring, foundation design and construction inspection services for the golf course buildings, and gas ventilation and/or monitoring systems for the buildings. ICON Engineering currently provides services related to the maintaining and monitoring of the landfill control systems.



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732.727.8000

www.cmeusa1.com

PLAINSBORO LANDFILL

PLAINSBORO, NJ



PLAINSBORO LANDFILL

Township of Plainsboro

Client: Township of Plainsboro
Contact: Neil Blitz, Superintendent of Public Works
Phone: (609) 799-0099

PROJECT DESCRIPTION:

The Plainsboro Townships Sanitary Landfill is an approximately 5-acre area that operated until 1982 accepting municipal, bulky and dry industrial waste. CME Associates responsibilities included the completion of the closure of the landfill and preparation of post-closure plans. The Township submitted to the NJDEP a Closure and Post-Closure Plan, dated September 29, 1986, last revised July 16, 1987. The main components of the plan included a landfill cap, groundwater monitoring wells, and methane gas wells. The cap and three groundwater monitoring wells were completed; however methane gas probes were not installed at the time.

The NJDEP determined that the Plainsboro Townships Sanitary Landfill was not closed in accordance with the Department's regulations. CME Associates' participation in this project began with preparing an As-Built Closure Certification for the landfill. This certification included a field investigation for the final cover system placed on the landfill, installing the planned methane gas probes, and preparing a boundary and landfill survey of the landfill site that will depict the existing site features including the locations of existing groundwater monitoring wells, and proposed methane gas probes.

CME Associates prepared a Post-Closure Care Plan that included post-closure activities for the duration of the post-closure care period. The post-closure activities include programs for maintenance along with implementation of all provisions for the final cover and final vegetation, side slopes, run-on and run-off control, groundwater monitoring wells, methane gas monitoring probes, and facility access control system. In addition, CME Associates prepared a Financial Plan including a cost estimate of the post-closure activities and a projection of funds for the post-closure care period.

CME Associates obtained Pre-Construction permit approval for the passive landfill gas venting system, and provided construction oversight for the installation of the passive venting system. CME Associates currently provides quarterly landfill monitoring and inspection services.

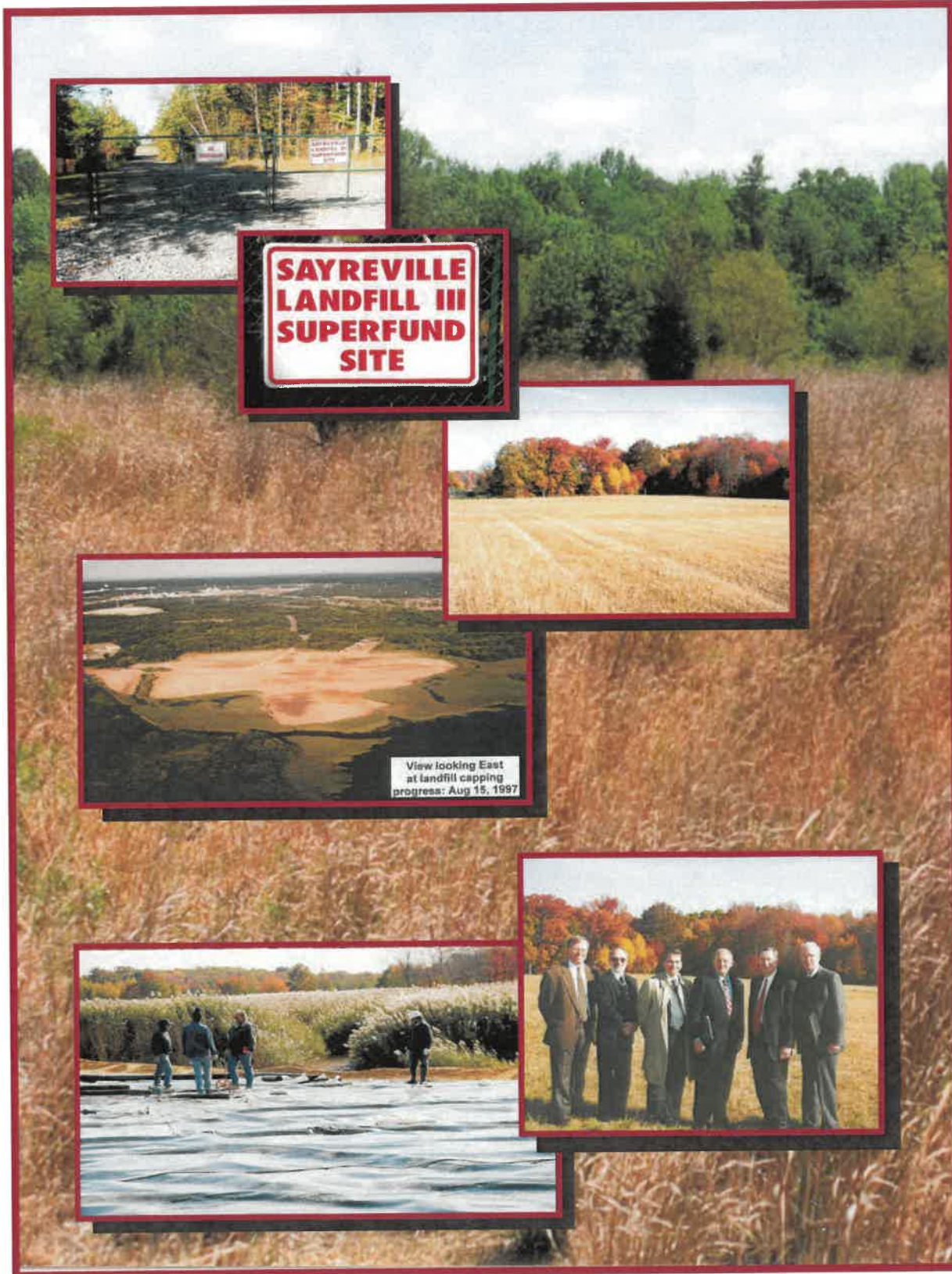


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Sayreville Landfill III Superfund Site Closure Project



AWARD WINNING PROJECT — **Environmental**

“Sayreville Landfill III Superfund Site Closure Project”

Project Owner's Name:
Borough of Sayreville
James L. Zagata, Mayor
Middlesex County, NJ

Completion Date: 1998
Cost Entire Project: \$3,950,000
\$1,975,000
Cost to the Municipality

David J. Samuel, P.E.
Managing Partner for CME

A former landfill that was operated by the Borough of Sayreville and then closed in 1977 was subsequently found to contain buried drums of hazardous compounds. Based on various data sources, the site was evaluated and then placed on the Federal Superfund National Priorities List in 1983. In 1990, the EPA issued a Record of Decision selecting a remedial action plan that included reclosure of the landfill by construction of a Solid Waste Cap, removal of the buried drums, imposition of site and deed restrictions, installation of stormwater and passive gas management systems, and monitoring of groundwater, surface waste, stream sediments and air.

The Borough, in recognition of its responsibilities and duties to the taxpayers and to the environment, then sought to enter into an agreement with other Potentially Responsible Parties (the Site Committee), to address the landfill closure. Accordingly, the Borough called upon its Engineer, David J. Samuel, P.E., to assist its legal counsel in preparation of such agreement with a view towards minimizing the Borough's cost and to provide such technical input into the remedial design as would reduce the scope of required work while still protecting the environment and still permit future reuse of the site.

In 1991 the Borough, along with the other six members of the Site Committee, signed an administrative Consent Order to design and implement the Remedial Action Plan. Mr. Samuel, as the Borough's Technical Representative on the Site Committee, then worked closely with the Site Committee and its design engineer in a quality control/value engineering capacity to assure compliance with Federal and State environmental

requirements with the lowest possible costs while still addressing the potential for future reuse of the site. Mr. Samuel's input into the various phases of the overall project assisted the Borough and the Site Committee with achieving a design that permitted the consolidation of the landfill footprint, thus reducing cap construction costs while at the same time providing lands that could be utilized for wetlands mitigation. Other design elements addressed sheet flow for surface runoff, thus providing for water quality while eliminating maintenance and monitoring costs associated with detention basins. Further, Mr. Samuel's overall input and direction, along with that of other technical advisors, assisted the Borough and the Site Committee in achieving an Operable Unit II Plan of "No Further Action" remedy for the off-site surface water and sediments and "No Further Action with Monitoring" remedy for groundwater for a five year period, thus saving millions of dollars in construction and monitoring costs while still assuring health, safety and environmental compliance.

Due to the efforts of Mr. Samuel, a Superfund site was closed, one of the first in New Jersey, at significantly reduced costs to the Borough, in a safe manner that did not adversely impact the environmentally sensitive surrounding areas and yet allows the Borough the opportunity for future reuse of the property.



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SIGNIFICANT PROJECT FEATURES

- Develop a future reuse plan in conjunction with an NJDEP ordered environmental closure operation.
- Site mitigation and closure work completed at significantly lower cost to the Borough.
- Acquisition of tidelands permits that allow for protection of the environment during construction and in the future.
- Elimination of an environmental hazard in a safe manner that does not prevent future utilization of the site.

EnCap - Meadowlands Redevelopment Project



Consulting and Municipal Engineers

“EnCap - Meadowlands Redevelopment Project”

The EnCap Meadowlands Redevelopment Project (MGRP) involves the closure, remediation, and redevelopment of four landfills in the Meadowlands area of northern New Jersey, including the former Lyndhurst, Rutherford, Avon, and Kingsland Landfills. The approximate 700 acre site is on its way to a multi-use redevelopment, including two golf courses, a hotel/spa, village center and 200-unit residential complex. The development of designs for closure and remediation from local and State governmental agencies, private investors, and a number of engineering firms, including CME Associates.

The EnCap MGRP is an example of a Beneficial Use Project, where materials, which would otherwise become solid waste, are proposed for reuse in order to cover, fill, and cap the landfills, and to shape the ground's topography for redevelopment. The reuse of these materials saves landfill space, conserves natural resources, and helps to economically fund the redevelopment of landfills, Brownfields, and other contaminated sites in New Jersey. The EnCap MGRP also serves as an important upland disposal option for materials generated by dredging projects in the NY/NJ Harbor area, which are crucial to the upkeep of the Port of New York and the economic vitality of the region.

The closure and capping of these landfills requires on the order of 5.5 million cubic yards of beneficial use materials, including 2.5 mcy of processed dredged materials (PDM). To expedite the review and approval process, which would typically be performed by the New Jersey Department of Environmental Protection

(NJDEP), CME Associates prepared the Acceptance Procedures for Fill Materials, and was selected as the Independent Review Engineer to evaluate and approve beneficial use materials on behalf of the NJDEP. In addition, the project requires approximately 3 million cubic yards of clean fill materials. CME Associates also provides application review for the clean fill materials in accordance with the NJDEP approved protocol.

CME Associates evaluates and certifies beneficial use materials for placement, and maintains a full field team on the Project Site, who provide Quality Control for the materials upon delivery. CME Associates' onsite activities include material tracking, environmental confirmatory sampling, documentation of material quality, and cooperation with the numerous parties involved on the Project and present on the Project site.



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MIDDLESEX LOGISTICS CENTER EDISON, NJ



MIDDLESEX LOGISTICS CENTER

EDISON, NJ

Client: JERC Partners VII, LLC
Contact: Jim Petrucci
Phone: (908) 732-6909

PROJECT DESCRIPTION:

CME Associates provided engineering services for the redevelopment of a portion of the ILR Landfill into the 550,000 SF warehouse/office building. ILR Landfill is approximately 120 acres located in Edison, New Jersey. The engineering services included site investigation, landfill closure, and remedial investigation consisting of the following activities:

TASKS COMPLETED:

Landfill Engineering:

- Prepared Major Modification to Landfill Closure and Post-Closure Care Plan
- Prepared a Financial Plan including a cost estimate for the post-closure activities and a projection of funds for the post-closure care period.
- Prepared design documents for the proposed landfill engineering controls
- Designed an active landfill gas extraction system consisting of the following elements:
 - o Extraction gas wells, enclosed flare, and a sub-slab ventilation system at the site.
 - o Lateral HDPE pipelines connected to the wellheads to convey gas from the gas well points to a header HDPE line.
 - o The header line to collect gas from the lateral lines attached to the gas control and treatment system.
 - o A blower station at the end of the header line to induce and control gas flow throughout the pipe network system and to convey the landfill gas to the enclosed flare.
- Preparation of a Radius air permit application and permit negotiations with NJDEP and USEPA including Applicability Determination for 40 CFR Subpart WWW and CC, and Separate Source Air Determination for Title V and PSD.
- Prepared a Subchapter 8 pre-construction air permit application for the active landfill gas extraction system and negotiated air permit conditions with NJDEP for the Subchapter 8 permit.
- Preparation of Fill Acceptance Protocol for approximately 500,000 cubic yards of imported fill materials including Processed Dredged Materials

Permits Procured:

- Minor and Major Landfill Disruption Permits
- Modification to Landfill Closure and Post-Closure Plan
- RAWP Permit approval
- Land use permits including Wetlands Letter of Interpretation, Wetlands General Permit #4, and Waterfront Development Permit
- Pre-Construction air permit approval for the underslab venting system, and active landfill gas collection and flaring system
- NJPDES/DSW permit
- Stormwater Pollution Prevention Plan
- Local Site Plan approvals from Township of Edison and Middlesex County



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Transfer Station Capacity Evaluation Plainfield MUA



Consulting and Municipal Engineers

Transfer Station Capacity Evaluation

Project Owner's Name: Plainfield Municipal Utilities Authority
Daniel Williamson, Executive Director

Completion Date: June 2014

Consulting Engineer: Michael McClelland, P.E. - Partner for CME

Plainfield Municipal Utilities Authority (PMUA), owns and operates a solid waste transfer station known as the Rock Avenue Transfer Station. The transfer station is utilized by the PMUA for solid waste collected within the City of Plainfield. Additionally the PMUA accepts waste from other municipalities through inter-local service agreements. The facility is capable of accepting and transferring municipal, bulky, vegetative and dry industrial waste types 10, 13, 13C, 23 and 27, respectively. The facility is authorized to accept and process a maximum of 280 tons of approved solid waste types and/or recyclable materials per day. The transfer station utilizes the direct top loading method of waste transfer within the facility. This allows for waste to be manipulated on the tipping floor with a wheel loader and feed the transfer trailers via gravity in the loading bay below.

Collection vehicles enter the transfer station site from Rock Avenue and proceed directly to the scale. Once the load is accessed by the weigh master, the vehicles proceed along a paved route to the rear of the transfer station. Once directed by the traffic coordinator to proceed to the tipping floor, the vehicles are reversed through one of three bay doors. On the tipping floor the vehicles discharge their waste. After discharging the vehicles proceed to the scale to receive its tare weight.

During the early part of 2014, the transfer station experienced an increase in solid waste brought to the facility. The increase in solid waste was due to new customers and the closing of other facilities in the area. The additional waste brought about operational difficulties to the Staff. Our firm was contacted to review the operations of the facility and provide recommendations. According an analysis was performed to determine whether additional capacity of the facility was required or if operational changes could accommodate the additional solid waste.

The analysis performed reviewed all aspects of the transfer stations operations. This included review of the traffic flow plan, processing equipment, tipping floor operations and utilization of transfer trailers. Additionally a capacity analysis was performed of the tipping floor building to determine if any additional capacity could be permitted without major modifications. Based upon our review, it was determined that the building can accommodate the incoming waste flow, but the number of transfer trailers available to the facility was the limiting factor. Processing of the solid waste brought by collection vehicles and through the tipping floor could not be processed due to the frequency of loading the transfer trailers. CME made recommendations to the PMUA to increase the number of transfer trailers, should the increased flow is sustained.



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Automated Garbage Collection Feasibility Study Plainfield MUA



Automated Garbage Collection Feasibility Study

Project Owner's Name: Plainfield Municipal Utilities Authority
Daniel Williamson, Executive Director

Completion Date: 2013

Consulting Engineer: Michael McClelland, P.E. - Partner for CME

The Plainfield Municipal Utilities Authority (PMUA) provides solid waste and recycling collection services to approximately 20,000 customers within the City of Plainfield. Collection service is provided utilizing a standard 96 gallon receptacle at a rate of twice each week and recyclable once each week. Collection is completed utilizing eight (8) semi-automated rear loading collection vehicles, each with a two person crew consisting of one truck driver and one laborer. The collection vehicles are furnished with automated tippers which aid in emptying the contents of the receptacles into the vehicle. The receptacles are left by the curbside on the scheduled day of solid waste or recyclable collection. The collection crew rolls each receptacle from the curbside onto the automated tipper on the rear of the collection vehicle. The tipper then empties the container into the vehicles hopper where it is compacted. The tipper then lowers the receptacle and it is rolled back to the original curbside location.

A study was performed to investigate the feasibility of utilizing automated garbage collection. "Automated Collection" is accomplished using a mechanical garbage truck requiring a work crew of one. The vehicle is typically a right hand drive vehicle operated by a driver without the need for laborers to handle receptacles. The vehicle has a mechanical arm located on the side which is operated from the cab of the truck. Receptacles are picked up by the mechanical arm and emptied into the top of the vehicles hopper. Automated collection vehicles furnished with both the mechanical arm and the rear loading capability are also available. During collection, receptacles are placed at the curbside by the Customers on their scheduled collection day for solid waste or recycling. The driver positions the collection vehicle beside the receptacle. The mechanical arm, operated by the driver through controls in the cab, picks up the receptacle and empties its contents into the vehicles hopper. The driver then uses the mechanical arm to return the receptacle to its original location. Automated collection requires a certain type of rolling receptacle.

The receptacles currently being utilized by the customers of the PMUA were suitable for use with the automated collection vehicle. Therefore, impacts to the Customers were to be minimal, if any. Based upon our evaluation, it was recommended that the automated solid waste collection be implemented in sections of the City through a pilot program. The sections to implement were selected based on street width, on street parking and residential dwelling density. By implementing on a small scale, the Staff would be able to acclimate themselves to the operation of the automated collection vehicles.



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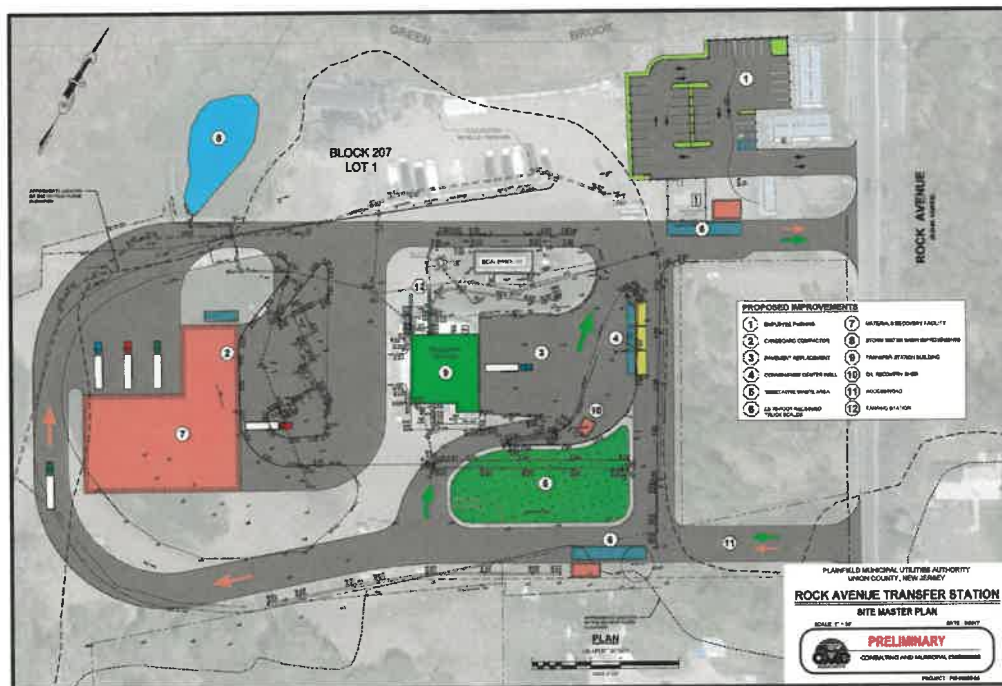
Material Recovery Facility / Transfer Station

Plainfield Municipal Utilities Authority

Contact: Daniel Mejias, Executive Director - P: 908.226.2518 ext: 261

The Plainfield Municipal Utilities Authority owns and operates a 280 tons per day solid waste transfer station on Rock Avenue in the City of Plainfield. The facility is known as the Rock Avenue Transfer Station and has a permitted capacity for processing 280 tons of solid waste per day. The Rock Avenue Transfer Station consists of a transfer station building, truck scale, scale house and residential convenience center. The Transfer Station operates by accepting solid waste within the transfer station building and loading the solid waste into large trailers for the ultimate disposal at landfills, County incinerator or other designated solid waste facilities. The Transfer Station provides service to the City of Plainfield, other nearby municipalities and private solid waste haulers. In addition, vegetative waste consisting of leaves and branches are accepted at the Transfer Station for transferring to NJDEP designated Class C Recycling Facilities.

CME is assisting the Plainfield Municipal Utilities Authority to construct a Material Recovery Facility on the site of the Rock Avenue Transfer Station that would result in the recovery of approximately 80% of the processed waste. The Project will include a number of improvements to the facility that will benefit the quality of the stormwater runoff while at the same time improving the beneficial reuse of the demolition debris generated in this area. A Material Recovery Facility is a facility where solid waste is sorted to remove commodity materials. The commodity materials are then transported to end market users for recycling. The commodity materials generally consist of metal, cardboard, wood, gypsum board and concrete. The conversion of 80% the waste material into commodity materials will result in major reduction of waste being disposed of at landfills, the County incinerator or other solid waste facilities while minimizing potential impacts to the groundwater, surface water and air quality.



Solid Waste Relevant Experience & References



RELEVANT SOLID WASTE EXPERIENCE & REFERENCES

PROJECT #1

SOLID WASTE ENGINEERING, GLOUCESTER COUNTY SOLID WASTE COMPLEX, SOUTH HARRISON TOWNSHIP, GLOUCESTER COUNTY, NJ

Client:	Gloucester County Improvement Authority
Contact:	Thomas H. Sullivan, CPM, SWC Administrator
Telephone:	(856) 478-6045, Ext. 20
Project Duration:	April 2015 – Present

Project Description:

Gloucester County Solid Waste Complex (GCSWC) includes a sanitary landfill, approximately 163 acres in extent and associated structures. CME Associates was retained to provide engineering and environmental services as the Solid Waste Engineer of record to Gloucester County Improvement Authority (GCIA) for the sanitary landfill at the GCSWC. CME Associates completed and continues to perform the following tasks to achieve and maintain compliance:

- CME is currently providing design and construction services for new Cell #15.
- Provided landfill engineering design services for the construction of new Cells #13 and #14. In addition, CME prepared and submitted a New Jersey Environmental Infrastructure Trust (NJEIT) loan application for construction the new cells. CME submitted Soil Erosion and Sediment Control (SESC) plans related to the Cells 13 and 14 design to the Gloucester Soil Conservation District (GCSO) for plan certification. CME provided Construction Administration, Oversight, and Inspection services during the construction of Cells 13 and 14 which included installation of double-composite liner including leachate collection system, and leachate pump station. Upon completion of the project activities, CME documented the completed work and issued as-built drawings and related construction certification report to the NJDEP.
- Provided engineering and environmental services to the GCIA for the landfill operations, closure and post-closure activities including Preparation of annual topographic survey; annual engineering report; annual inspection; landfill perimeter and surface emissions monitoring for methane and monthly Landfill Gas (LFG) quality/flow measurements.
- Assisted GCIA with, Title V Air Pollution Control Operating Permit renewal, meeting compliance requirements associated with laboratory emissions testing on the flare inlet and related reporting to NJDEP.
- Preparation of the update for the Closure and Post-Closure Financial Plan.
- Evaluation of a program recommended by the previous consultant to take corrective actions and monitor the interior subsurface landfill gas temperatures
- NJPDES permit compliance assistance. Completed a statistical analysis of groundwater analytical data samples to identify statistically significant increases of targeted analytes in monitoring wells downgradient of the landfill over background concentrations. The analysis was completed in accordance with the requirements of a Groundwater Protection Program Plan (GWPP) prepared pursuant to 40 CFR 258. Performed a statistical analysis of stormwater analytical data associated with detention basins.
- Contract administration associated with refurbishment of landfill gas flare that included replacement of flare burner assembly, replacement of thermocouples, re-insulation of flare stack, and stack surface preparation/painting.
- Solid waste acceptance review. Completed evaluation of potential adverse impacts associated with accepting C&D screenings for use as alternative daily cover (ADC), & for disposal at the GCSWC.





PROJECT #2

SOLID WASTE ENGINEERING, MIDDLESEX COUNTY LANDFILL / MIDDLESEX COUNTY UTILITIES AUTHORITY, MIDDLESEX COUNTY, NEW JERSEY

Client:	Middlesex County Utilities Authority
Contact:	Richard Fitamant, Executive Director
Telephone:	(732)721-3800 ext. 576
Project Duration:	2016 - Present

Project Description:



CME Associates currently provides the Middlesex County Utilities Authority Division of Solid Waste with Solid Waste Engineering Consulting Services in connection with the operation of the Middlesex County Landfill in East Brunswick, NJ.



CME has been assisting the MCUA with maintaining compliance with their NJPDES Permit and preparation of its renewal application due in August 2016. In order to comply with the Discharge to Surface Water (DSW) requirements of the associated NJPDES permit, CME performed an annual inspection of the stormwater management system. CME is preparing an Annual Inspection Report to document observations and related recommendations to properly maintain, repair, and operate the stormwater management system, as well as related budgetary forecasts. CME will provide the necessary recommendations to update the stormwater pollution prevention plan (SWPPP) for the capped area of the Phase II Landfill and provide other DSW assistance as necessary, including technical and permit management services.



CME has also been retained to assist the MCUA in complying with the Discharge to Groundwater (DGW) requirements associated with the NJPDES permit, including preparation of semi-annual groundwater quality monitoring reports in accordance with the MCUA's Ground Water Protection Plan (GWPP). In accordance with the GWPP requirements, CME will perform adequate statistical analyses to evaluate the ground water quality trend and present the results of the evaluation in the semi-annual reports, as well as provide recommendations.

The MCUA submitted its most recent biennial update to its Closure/Post Closure Care/Financial Plan in January 2016. CME is providing assistance the MCUA with updates to the Closure/ Post Closure Financial Plan of the Middlesex County Landfill. In addition, CME is assisting the MCUA in any necessary modifications as required by the NJDEP and any other updates that may be necessary.



PROJECT #3

SOLID WASTE ENGINEERING, CUMBERLAND COUNTY LANDFILL / CUMBERLAND COUNTY IMPROVEMENT AUTHORITY, CUMBERLAND COUNTY, NEW JERSEY

Client:	Cumberland County Improvement Authority
Contact:	Gerard Velazquez, III, Executive Director
Telephone:	(856) 825-3700 x1150
Project Duration:	2016 - Present

Project Description:

CME Associates was retained as Solid Waste Engineer in 2016 and currently provides the Cumberland County Improvement Authority (CCIA) with Professional Engineering Consulting Services in connection with the operation and permitting of the Cumberland County Landfill in Deerfield Township, NJ.

As part of these services CME is currently assisting the CCIA with the following tasks:

- 1.) Preparation of Solid Waste Facility Permit (SWFP) Modification;
- 2.) Modification of vertical expansion plans and preparing final as-built certifications for the newly constructed cell;
- 3.) Preparation of the NJPDES Permit Renewal Application;
- 4.) Preparation of Annual Bond Inspection Report;
- 5.) Preparation of annual Engineering Report;
- 6.) Groundwater Detection Monitoring and Statistical Analysis;
- 7.) Stormwater Basin Discharge to Groundwater Monitoring and Statistical Analysis;
- 8.) Preparation of Closure and Post-Closure Plan Update; and,
- 9.) Provision of other on-call landfill services as necessary.





PROJECT #4

DEFINED AND ON-CALL PROFESSIONAL SOLID WASTE MANAGEMENT AND ENVIRONMENTAL ENGINEERING, PLANNING AND SURVEYING SERVICES IN CONNECTION WITH THE OPERATION AND PERMITTING OF THE MONMOUTH COUNTY DIVISION OF RECLAMATION FACILITIES, MONMOUTH COUNTY, NJ

Client:	Monmouth County Department of Public Works & Engineering
Contact:	Matthew Rutkowski, Assistant Superintendent
Telephone:	(732) 683-8686
Project Duration:	2014- Present

Project Description:

CME Associates provides the County of Monmouth with defined and on-call professional solid waste management and environmental engineering, planning and surveying services in connection with the operation and permitting of the Monmouth County Reclamation Center and related facilities. The Monmouth County Reclamation Center (MCRC) consists of the following facilities:

- Materials Processing & Recovery Facility
- Phase I, II, and III Landfills
- Tinton Falls facilities that operate under various NJDEP, USEPA, and ACOE permits
- Post-closure care and monitoring of Howell Landfill in Howell Township
- Post-closure care and monitoring of Belford Landfill in Middletown Township



CME Associates provides the following environmental engineering services under the defined tasks:

- Semiannual ground water protection program (GWPP) compliance reports in compliance with the MCRC's NJPDES permit.
- Semiannual ground water contour map for both the upper Kirkwood and Vincentown Aquifers
- Quarterly Shewhart-CUSUM Control Charts and a letter report
- Annual Compliance Statement, Semiannual Deviation Reports, Annual Emission Statement, Annual Greenhouse Gas Report for the MCRC Title V Operating Permit for the year 2014
- Quarterly letter report and monitoring location map for the results of perimeter gas testing at Howell Landfill
- Semiannual letter report for the results of laboratory gas testing from three gas vents at Howell Landfill
- Annual topographic report for the approximate 266-acre area of the Phase I, II and III landfills as required by N.J.A.C. 7:26-2A.8(i) for submission to the NJDEP

In addition, CME Associates provides the Monmouth County with the necessary "on-call" professional engineering, planning and surveying consulting services in support of the ongoing operation and closure of the Monmouth County Reclamation Center and related facilities.



PROJECT #5

PROFESSIONAL ENGINEERING SERVICES FOR CLOSURE AND POST-CLOSURE CARE OF EDISON LANDFILL & RESTORATION OF ENVIRONMENTAL BENEFIT AREA, EDISON TOWNSHIP, MIDDLESEX COUNTY, NJ

Client:	Township of Edison
Contact:	Mark Kataryniak, P.E., Director of Planning & Engineering
Telephone:	(732) 248-7248
Project Duration:	2016- Present



CME Associates was retained by the Township of Edison to submit to the NJDEP the necessary engineering design related to the Edison Landfill Closure leading to the eventual objective of developing a solar energy system on the landfill. Several Edison Landfill closure applications and related documents were submitted to the NJDEP between 2004 and 2012; however, in order to address the outstanding NJDEP Notice of Deficiency letters, dated January 10, 2012 and February 25, 2014, the Township of Edison must submit a revised Landfill Closure and Post-Closure Care Plan for the Edison Landfill.

CME is assisting the Township in preparation of the final Post-Closure Care Plan. Once the Closure Plan is approved and the proposed environmental

improvements are constructed, the Township will be in a position pursue the installation of solar energy system at the landfill. As part of these services, CME is assisting the Township to complete the following tasks:

1. Preparation of Topographic and Boundary Survey
2. Engineering Design and Implementation for Environmental Improvements and Closure, including:
 - o Perimeter Leachate Collection and Conveyance System
 - o Perimeter Slurry Cutoff Wall
 - o Landfill Gas Extraction/Collection and Conveyance System
 - o Perimeter Landfill Gas Monitoring System
 - o Site Grading & Storm Water Management System and Details
 - o Final Landfill Capping System and Details
3. Preparation of Engineering Design Report for Landfill Closure and Post-Closure Care
4. Preparation of Landfill O&M Manuals for all elements of the Closure and Post Closure Plan
5. Preparation of a Financial Plan for Landfill Closure and Post-Closure Care
6. Preparation of a Major Landfill Disruption Permit
7. Preparation of a revised Landfill Closure and Post-Closure Plan
8. Preparation of Soil Erosion and Sediment Control Plan
9. Project Management and Coordination

In addition, CME will assist the Township with the Closure of the Environmental Benefit Area (EBA) (Block 400, Lots 10, 12, 16, & 19) under Solid Waste Rules as pre-1982 Landfill. As part of this project, CME will conduct a Site Investigation to delineate the extent of waste in the EBA, assess groundwater quality and control related to presence of metals and VOCs, and design PDM and clean fill capping system. CME will also preside of the Raritan Riverfront Restoration Project aspect of project



PROJECT # 6:

FORMER OVERPECK LANDFILL / WASTE WATER & AIR MONITORING COMPLIANCE SERVICES BERGEN COUNTY, NEW JERSEY

Client:	Bergen County / Department of Parks
Contact:	James G. Koth, Acting Director of Parks Department
Telephone:	(201) 336-7265



Project Description:

The New Overpeck County Park was constructed on the former Overpeck Landfill, a municipal solid waste landfill in Bergen County, New Jersey. The landfill closure permit requires collection of landfill leachate and disposal to the Bergen County Utilities Authority (BCUA) through the three (3) pump stations at the site. In addition, sub-slab gas venting systems were installed at the four (4) onsite buildings to prevent the accumulation of landfill gases to potentially dangerous levels.

CME Associates has been providing the necessary professional services for the Operation and Maintenance of the three pump stations. In addition, CME Associates implements a monthly waste water sampling and testing program and reports the wastewater sampling results to the BCUA on their Self-Monitoring Report Forms.

CME recently prepared a Operation & Maintenance (O&M) Manual for the Leachate Removal System. The landfill closure permit requires collection of landfill leachate and disposal to the Bergen County Utilities Authority (BCUA) trunk sewer and that the leachate quality be monitored through monthly sampling and testing. In addition, the permit requires that the monitoring of the leachate collection systems and maintenance of pumps be conducted on a monthly basis. The O&M Manual was prepared to provide information related to the general operation and maintenance activities to be performed to comply with applicable regulations and permit requirements, as well as to maintain the integrity of the leachate collection and conveyance system.



CME Associates also collects air samples from each of the four building gas venting systems and prepares the necessary reports in relation to the air permit requirements.



PROJECT # 7:

CITY OF LINDEN SANITARY LANDFILL, LINDEN, NEW JERSEY

Client:	City of Linden
Contact:	George Vircik, P.E., City Engineer
Telephone:	(908)474-8470

Project Description:

CME Associates provided engineering and environmental services to the City of Linden for the landfill closure and post-closure activities for the City of Linden Sanitary Landfill in Linden, New Jersey. The City of Linden Sanitary Landfill is located in the southwest corner of Linden. The Property comprises approximately 55 acres, running contiguous to the Rahway River, and is located off Lower Road, City of Linden, Union County, New Jersey.

CME has provided the following services:

- Quality Assurance services for the landfill closure activities including final capping system, storm water management system, and passive landfill gas system.
- Design of active landfill gas extraction and control system, including specification / contract document preparation, and construction oversight.
- Preparation of request for proposals (RFP) and contract documents for landfill gas utilization and renewable energy (wind/solar).
- Preparation of the NJDEP Subchapter 8 and Title V air permits for the active landfill gas collection and enclosed flare at the landfill. Negotiating the conditions of the Title V air permit with USEPA and NJDEP, and procuring a Title V Permit.



Ongoing Tasks:

- Surface and perimeter methane gas surveys on a quarterly basis.
 - Maintenance and monitoring requirements of the Title V Permit.
 - Groundwater monitoring on a quarterly basis.
 - Monthly gas well tuning at each gas wellhead using a portable landfill gas monitor to analyze the gas compositions, pressure, and temperature on-site to determine adjustment necessity.
- Operations and maintenance of the leachate collection and conveyance system, including monthly leachate sampling in compliance with the Linden Roselle Sewerage Authority permit requirements.



PROJECT # 8:

THE FORMER CITY OF BAYONNE LANDFILL AND PSE&G SITE REDEVELOPMENT PROJECT IN BAYONNE, NEW JERSEY

Client:	Bayonne Golf Club Redevelopment Site
Contact:	Ron D'Argenio, Esq.
Telephone:	(201) 888-6155

Project Description:

The Bayonne Golf Club Redevelopment site consists of approximately 470 acres of contaminated Brownfields including the former Bayonne Sanitary Landfill and the former PSE&G site that originally included 46 Areas of Concern (AOCs) in Bayonne, NJ. CME Associates provided engineering services for design and environmental remediation, and construction oversight services for the implementation of the remedial actions as required by the approved RAWP. CME Associates prepared the Remedial Action Report (RAR) and obtained a **No Further Action (NFA)** letter for the Bayonne Golf Club Redevelopment Site that has been redeveloped into an 18-hole golf course. CME completed the following:



- Compliance and implementation of Closure and Post-Closure regulatory requirements.
- Design and installation of a long term groundwater monitoring network system consisting of thirty-six (36) shallow and deep monitoring wells to evaluate the integrity of natural clay liner and the perimeter containment system.
- Long-term groundwater monitoring and sampling on a quarterly basis.
- Regulatory compliance for NJDEP permit requirements, including NJPDES permit for discharge to groundwater and quarterly reports required for NJDPES permit.
- Preparation of groundwater contour maps for the Bayonne Golf Club site.
- Preparation of annual long-term groundwater monitoring report and contingency monitoring report for pile supported structures.
- Implementation of landfill gas control system and design of final enclosed flare
- Preparation of Radius air permit application for environmental improvement pilot test using candlestick flare and supervision of stack test.
- Preparation of Radius air permit application for gas collection system and enclosed flare, including the negotiations of the final permit conditions with NJDEP
- Coordination of approvals for installation of enclosed flare and flare foundation
- Design of underslab gas ventilation system for the Club House
- Design and implementation of the leachate control system and leachate pre-treatment system
- Implementation of final cover system including Processed Dredged Materials and clean fill
- Implementation of Fill Acceptance Protocol and Review Engineer for final cover system
- Design and construction oversight of golf club structures
- Preparation of Remedial Action Report and procurement of a site-wide **No Further Action (NFA) Letter**

Ongoing Tasks:

- Long-term groundwater monitoring program including preparation of annual long-term groundwater monitoring and pile support structures report.
- Landfill gas quality monitoring including coordination of subcontractor for landfill gas sampling and preparation of letter report for the landfill gas collection system and gas flare required by the NJDEP preconstruction permit.
- Weekly operation, maintenance and monitoring of the leachate/groundwater pre-treatment system



PROJECT # 9:

THE FORMER BUZBY BROTHERS LANDFILL/ VOORHEES ENVIRONMENTAL PARK IN VOORHEES, NEW JERSEY

Client:	Township of Voorhees
Contact:	Larry Spellman, Municipal Administrator
Telephone:	856-429-7174

Project Description:



The Site is about of 37 acres in extent and is located within a centralized location in the Township. The Site is mostly open space with a pond at its southern end. The adjacent lot to the north of the Site is the 19-acre portion of the former Buzby Brothers Sanitary Landfill that is currently owned by the General Electric Corporation (GE Parcel).

The Site is slated for development as the proposed Voorhees Environmental Park (Park).

To obtain NJDEP approvals for the Park construction, a Joint Application for Remedial Action Workplan Addendum (RAWA), Landfill Closure and Post-Closure Care Plan, and Major Landfill Disruption Permit, dated June 2014, was prepared and submitted to the NJDEP. Subsequently, upon reviewing the Joint Application, NJDEP Office of Brownfield Reuse, issued a Closure Plan Approval, on September 18, 2014.





PROJECT #10:

MIDDLESEX LOGISTICS CENTER REDEVELOPMENT PROJECT, EDISON, NJ

Client:	JERC Partners VII, LLC
Contact:	Jim Petrucci
Telephone:	908-730-6909

Project Description:

CME Associates provided engineering services for the redevelopment of a portion of the ILR Landfill into the 550,000 SF warehouse/office building. ILR Landfill is approximately 120 acres located in Edison, New Jersey. The engineering services included site investigation, landfill closure, and remedial investigation consisting of the following activities:



Landfill Engineering:

- Prepared Major Modification to Landfill Closure and Post-Closure Care Plan
- Prepared a Financial Plan including a cost estimate for the post-closure activities and a projection of funds for the post-closure care period.
- Prepared design documents for the proposed landfill engineering controls
- Designed an active landfill gas extraction system
- Preparation of a Radius air permit application and permit negotiations with NJDEP and USEPA including Applicability Determination for 40 CFR Subpart WWW and CC, and Separate Source Air Determination for Title V and PSD.
- Prepared a Subchapter 8 pre-construction air permit application for the active landfill gas extraction system and negotiated air permit conditions with NJDEP for the Subchapter 8 permit.
- Preparation of Fill Acceptance Protocol for approximately 500,000 cubic yards of imported fill materials including Processed Dredged Materials



Permits/ Approvals Procured:

- Minor and Major Landfill Disruption Permits
- Modification to Landfill Closure & Post-Closure Plan
- RAWP Permit Approval
- Land use permits including Wetlands Letter of Interpretation, Wetlands General Permit #4, and Waterfront Development Permit
- Pre-Construction Permit for under-slab venting system and active landfill gas collection/ flare system
- NJPDES/ DSW Permit
- Stormwater Pollution Prevention Plan
- Local Site Plan approvals from Township of Edison and Middlesex County



PROJECT #11:

PLAINSBORO LANDFILL, PLAINSBORO, NJ

Client:	Plainsboro Township
Contact:	Neil Blitz, Superintendent of Public Works
Telephone:	609-799-0099

Project Description:

The Plainsboro Townships Sanitary Landfill is an approximately 5-acre area that operated until 1982 accepting municipal, bulky and dry industrial waste. CME Associates responsibilities included the completion of the closure of the landfill and preparation of post-closure plans. The Township submitted to the NJDEP a Closure and Post-Closure Plan, dated September 29, 1986, last revised July 16, 1987. The main components of the plan included a landfill cap, groundwater monitoring wells, and methane gas wells. The cap and three groundwater monitoring wells were completed; however methane gas probes were not installed at the time.



The NJDEP determined that the Plainsboro Townships Sanitary Landfill was not closed in accordance with the Department's regulations. CME Associates' participation in this project began with preparing an As-Built Closure Certification for the landfill. This certification included a field investigation for the final cover system placed on the landfill, installing the planned methane gas probes, and preparing a boundary and landfill survey of the landfill site that will depict the existing site features including the locations of existing groundwater monitoring wells, and proposed methane gas probes.

CME Associates prepared a Post-Closure Care Plan that included post-closure activities for the duration of the post-closure care period. The post-closure activities include programs for maintenance along with implementation of all provisions for the final cover and final vegetation, side slopes, run-on and run-off control, groundwater monitoring wells, methane gas monitoring probes, and facility access control system. In addition, CME Associates prepared a Financial Plan including a cost estimate of the post-closure activities and a projection of funds for the post-closure care period.

CME Associates obtained Pre-Construction permit approval for the passive landfill gas venting system, and provided construction oversight for the installation of the passive venting system. CME Associates currently provides quarterly landfill monitoring and inspection services.

**LSRP Relevant Experience
& References**

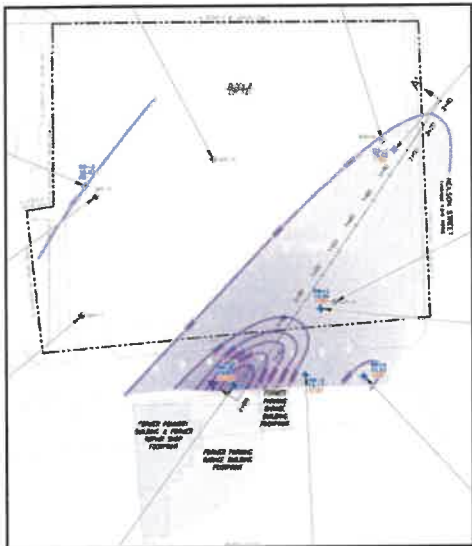


RELEVANT LSRP EXPERIENCE & REFERENCES

PROJECT #1

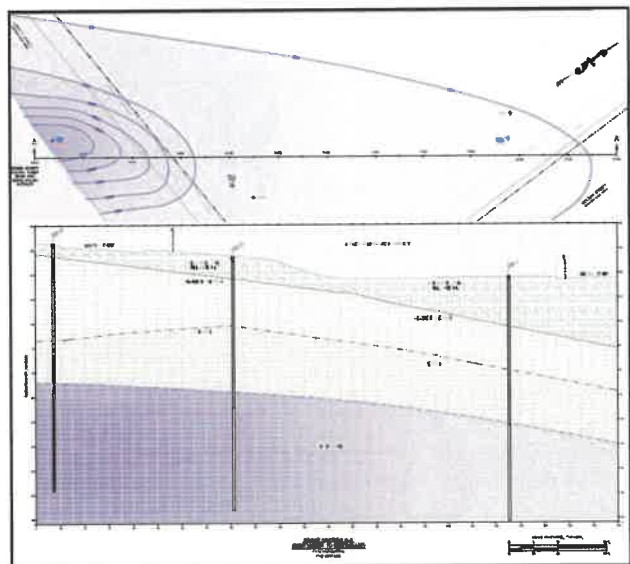
PRELIMINARY ASSESSMENT, SITE INVESTIGATION, REMEDIAL INVESTIGATION, FORMER WOLFSON PARKING DECK, NEW BRUNSWICK, MIDDLESEX COUNTY, NEW JERSEY (NJDEP PI NO. 772343)

Contact: Ronald Sendner, County Engineer
Client: Middlesex County
Tel: (732) 745- 3283
Duration: Ongoing



On behalf of the County of Middlesex, CME conducted a Preliminary Assessment, Site Investigation, and Remedial Investigation at the former parking deck. Based on the PAR findings, CME recommended further investigation of the identified AOCs to determine if contamination was present at the Site. During the SI, soil and groundwater contamination was identified at the Site. Specifically, the chlorinated volatile organic compounds (cVOCs), or chlorinated solvents, trichloroethylene (TCE) and vinyl chloride were detected at concentrations exceeding the Groundwater Quality Standards (GWQS). As part of the remedial investigation of cVOCs in groundwater, CME subsequently installed on-site monitoring wells (RW-1, RW-2, and RW-3) and three (3) off-site bedrock monitoring wells (RW-4, RW-5, and RW-6) to assess the potential off-site source of groundwater impacts identified in the

previously installed. The monitoring wells were installed to approximately 50-feet below ground surface for sampling of the groundwater within the bedrock. CME also conducted a file review to assess the presence of potential off-site sources. The results of multiple rounds of groundwater sampling at the on-site and off-site monitoring wells indicated that the high concentrations of chlorinated VOCs (TCE) were emanating from an off-site, upgradient source and therefore not associated with the Site. CME notified the NJDEP about the off-site contribution of the chlorinated VOCs and will recommend no further action for groundwater at the Site.



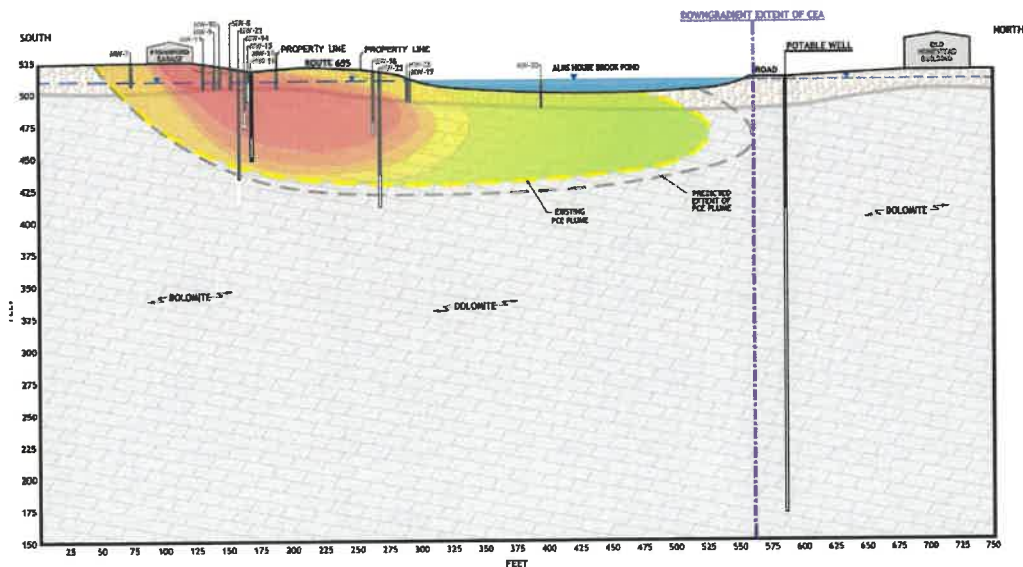
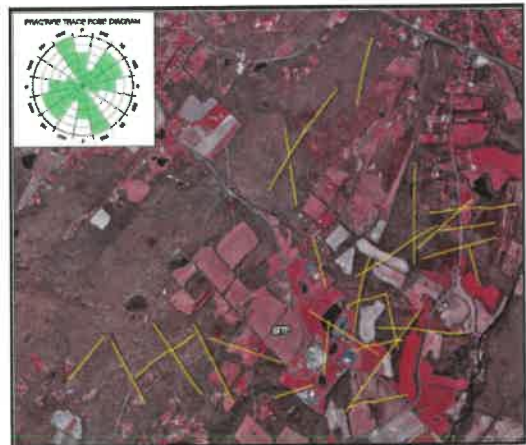


PROJECT #2

REMEDIAL INVESTIGATION, FRANKFORD ROAD MAINTENANCE GARAGE, FRANKFORD, SUSSEX CO., NEW JERSEY (NJDEP PI NO. 010005)

Contact: Joseph Biuso, Director, Facilities Management
Client: Sussex County
Tel: (973)579-0490
Duration: April 2012- June 2016

On behalf of the County of Sussex, CME conducted a Remedial Investigation at the Frankford Road Maintenance Garage. Soil and groundwater contamination associated with several areas of concern was investigated. The main contaminant of concern in groundwater was tetrachloroethene (PCE), a chlorinated solvent. CME delineated the PCE plume which extended offsite to the northeast from a source area at the east side of the garage. TCE, vinyl chloride, total xylenes, and VOC TICs concentrations also exceed the GWQS at certain locations. Groundwater was contaminated in both the overburden soils and in the underlying fractured bedrock. Groundwater flow and potential contaminant migration in the dolomite bedrock underlying the site was likely controlled by the occurrence and orientation of transmissive fractures. Therefore, as part of the remedial activities, CME conducted an investigation to characterize bedrock fractures at the site, including fracture trace evaluation, field mapping, and borehole geophysics. The groundwater investigation included the installation and sampling of a series of shallow overburden monitoring wells, intermediate bedrock wells, and deep bedrock wells. No DNAPL was identified at the site; however, the PCE plume extending off site was a potential threat to nearby potable wells. CME recommended an active treatment remedy for remediation of the PCE plume.

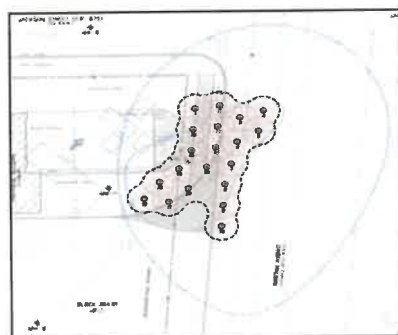




PROJECT #3

REMEDIAL SERVICES AT THE SOUTH RIVER FIREHOUSE REDEVELOPMENT SITE, BOROUGH OF SOUTH RIVER, MIDDLESEX CO., NEW JERSEY (NJDEP PI NO. 021019)

Contact:	Arthur Londensky, Borough Administrator
Client:	Borough of South River
Tel:	(732) 257-1999 ext. 519
Duration:	2013 – Present



On behalf of the Borough of South River, CME Associates has been performing remedial activities at the South River Firehouse Redevelopment Site. The Site was most recently operated by the Knights of Columbus as a tavern, meeting and banquet hall, offices, and a boxing club. The Borough of South River plans to construct a new firehouse facility on the site. Previous site uses included operations of various fueling stations with many unregistered and registered USTs as well as the use of mechanics shops. CME Associates performed a Preliminary Assessment (PA) in 2013 and identified eight (8) AOCs on the site. CME completed a Site Investigation (SI) of the identified areas of concern between September 2013 and July 2014. Lead and benzene exceedances related to the release from USTs were identified during the Site Investigation. CME conducted an extensive Remedial Investigation at the Site. Remedial investigation activities identified concentrations of Benzene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Chlorobenzene, EPH, Ethylbenzene, 2-methylnaphthalene, Toluene, and Total Xylenes in soil at the Site above applicable remediation standards and screening levels. Groundwater sampling at the site determined the groundwater is contaminated with Benzene, Ethylbenzene, 2-methylnaphthalene, MTBE, TBA, toluene and Total Xylenes above the GWQS. Based on a review of groundwater sampling results, concentrations of benzene, ethylbenzene, and naphthalene exceeded NJDEP Vapor Intrusion Screening Levels. CME performed a soil gas investigation at the Site in the proposed building footprint. The Site is currently vacant with no buildings or structures present, but a municipal

firehouse is scheduled to be constructed on the property. CME determined a sub-slab ventilation system should be installed under the new structure.

Remedial actions thus far have included:

- Removal of six (6) former regulated USTs (AOCs 1A, 1C, 1E) between April 2015 – January 2016
- Excavation of contaminated soil related to former USTs
- Removal of two (2) ASTs (AOC-2A and 2B)
- Contaminated soil excavation in Storage and Staging Area (AOC-4) took place in May 2015.
- Two (2) sump pits (AOC-5) demolished with building in 2015. No evidence of contamination indicated.
- Workshop area (AOC-6) demolished. Sampling of concrete floor was conducted. No contamination was identified.

CME submitted the Remedial Investigation Report to the NJDEP on March 1, 2017 and is currently preparing the Remedial Action Report. CME submitted a HDSRF application to the NJDEP in January 2016 for a grant in the amount of \$247,692.09 for the costs of the completed PA, SI, RI, and is currently in the process of preparing an HDSRF application to recoup 25% of the costs of the remedial action, approximately an additional \$180,000.



PROJECT #4

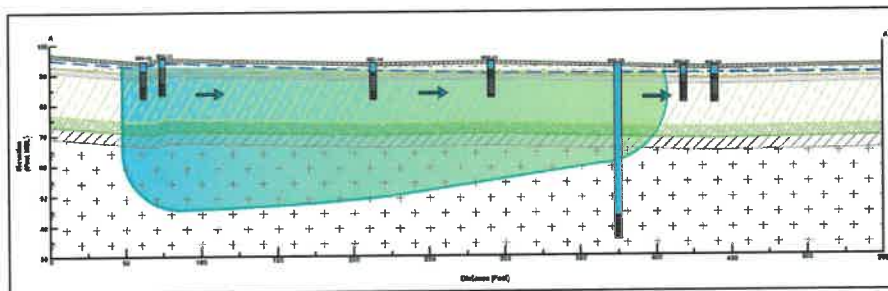
REMEDIAL INVESTIGATION AND REMEDIAL ACTION, MANALAPAN DPW GARAGE, MANALAPAN, MONMOUTH CO., NEW JERSEY (NJDEP PI NO. 023183)

Contact: Tara Lovrich, Township Administrator
Client: Township of Manalapan
Tel: (732) 446-8308
Duration: Ongoing

On behalf of the Township of Manalapan, CME performed a Remedial Investigation at the DPW garage and is currently performing the remedial action. The Remedial Investigation consisted of delineation of soil and groundwater contamination associated with several areas of concern identified at the site, including multiple underground storage tanks (USTs) and aboveground storage tanks (ASTs). Contaminants including benzene, TCE, and vinyl chloride are present in the groundwater at concentrations above applicable remediation standards.



Although the primary contaminant in groundwater at the site is benzene, a separate chlorinated solvent, specifically TCE, is present at the Site. The investigation of chlorinated solvent impacted groundwater during the Remedial Investigation included installation of a deep well to a depth of 58 feet to vertically delineate the TCE impacts at the site, as well as a temporary well point investigation to investigate potential off-site impacts to neighboring residential and wooded properties.



Results of the Remedial Investigation indicated impacts to groundwater appear to be stable and not migrating under current site conditions. CME recommended Monitored Natural Attenuation as the remedy for groundwater contamination at the site and

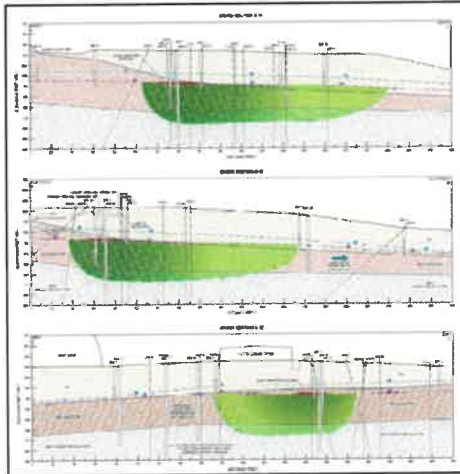
is in the process of performing quarterly groundwater monitoring events in order to demonstrate decreasing contaminant trends. CME prepared a submitted a Classification Exception Area (CEA) fact sheet to the NJDEP with the Remedial Investigation Report. Elevated levels of benzene, TCE, vinyl chloride, and VOC TICs are included in the CEA and the footprint and cross-section of the CEA is shown in the figures above.



PROJECT #5

REMEDIAL INVESTIGATION, LAYTON MAINTENANCE GARAGE, LAYTON, SUSSEX CO., NEW JERSEY (NJDEP PI NO. 023669)

Contact:	Joseph Biuso, Director, Facilities Management
Client:	Sussex County
Tel:	(973)579-049
Duration:	April 2012- December 2012



On behalf of Sussex County, CME Associates provided LSRP services and conducted a remedial investigation at the Layton Road Maintenance Garage between 2011 and 2016. Soil and groundwater at the site were impacted by discharges from former gasoline and diesel USTs. The remedial investigation included soil and groundwater sampling to delineate the extent of contamination and evaluate potential migration pathways and receptors. Soils in the area of the former USTs are contaminated with BTEX, petroleum hydrocarbons (EPH), naphthalene, and 2-methylnaphthalene at concentrations above direct contact and/or impact to groundwater screening levels. The horizontal and vertical extent of soil contamination was delineated to the applicable remediation standards.

The occurrence of LNAPL in the area of the former USTs was evaluated. Sampling and regular monitoring was used to delineate the horizontal and vertical extent of residual and mobile LNAPL, identify seasonal trends, and correlate the occurrence of free product in monitoring wells to site water levels. The LNAPL body was shown to contract and expand as groundwater levels rise and lower, but generally remain stable (non-migrating). Interim remedial measures including a product skimmer and Enhanced Fluid Recovery (EFR) were employed.

Groundwater investigations targeted three general water bearing zones: an upper (shallow) unconfined zone occurring in till overburden and the upper highly weathered portion of the red sandstone bedrock, an intermediate zone in poorly competent red sandstone, and a lower zone in deeper more competent red sandstone and gray siltstone. A total of 26 monitoring wells are installed at the site, including wells in each of the three water bearing zones. Nine (9) additional monitoring wells were installed at the site, including 4 bedrock wells situated to intercept specific fractures. Eight (8) groundwater sampling events were conducted between Jan 2012 and Nov 2015. The horizontal and vertical extent of groundwater contamination was delineated. Benzene is the main contaminant of concern, and the contamination is most widespread in the upper water bearing zone. Long-term monitoring results show that the plume is stable and is not migrating under the current site conditions. Groundwater contaminant levels have significantly declined over time at several monitoring locations, suggesting that natural attenuation processes are active and offset the continued contaminant mass loading in the LNAPL source area. In addition, the groundwater contamination historically impacted the onsite potable well, and water at the facility is treated using a POET system consisting of activated carbon filters. Raw and treated water was sampled on a regular basis to verify the efficacy of the POET system, and annual operation and maintenance reports were submitted to the NJDEP pursuant to IEC case requirements. A Remedial Investigation Report, including CEA Proposal, was prepared and submitted to the NJDEP in April 2016.



PROJECT #6

**LSRP SERVICES AT THE LENAPE PARK TRAP AND SKEET,
TOWNSHIP OF CRANFORD, UNION CO., NEW JERSEY (NJDEP PI NO. G000022693)**

Contact:	Thomas Mineo, County Engineer
Client:	County of Union
Tel:	(908)789-3653
Duration:	2013 – Present



CME Associates performed a remedial investigation at the Lenape Park Trap and Skeet between October 2014 and May 2016. Historically, a trap and skeet facility operated at the site from circa 1925 to 2005, and a small arms target range operated from the late 1920s to 1979. Soils in the area of the former shooting ranges are contaminated with metals (primarily lead, arsenic, and antimony) and PAH semi-volatile compounds at concentrations above applicable remediation standards. The contamination appears to locally impact shallow groundwater, and also impacts sediment and surface water in the Nomahegan Brook and Rahway River. CME obtained a Freshwater Wetlands General

Permit #14 in order to install groundwater monitoring wells and investigate the groundwater contamination. The extent of contamination is delineated and the remedial investigation has been completed. CME submitted a Remedial Investigation Report, including CEA proposal, to the NJDEP in May 2016.

CME is currently in the process of conducting feasibility studies for potential remedial actions and preparing a Remedial Action Workplan. Monitoring is being conducted to evaluate seasonal conditions in groundwater and surface water quality in the areas of concern. The water data will be used to design an appropriate remedial action and as a baseline for post-remedial verification samples. Additionally, further evaluation is proposed to establish site-specific cleanup goals based on ecological receptors. Most of the contaminated areas of concern at the site impact environmentally sensitive natural resources including wetlands, riparian zones, and streams. Therefore, cleanup of the contamination will be largely driven by ecological considerations. The findings of previous ecological studies at the site indicate that metals concentrations in the stream sediments and wetland soils pose a potential risk to wildlife. Additional ecological assessment, including additional tissue sampling if needed, will be conducted to further quantify the risk associated with the site contamination and derive site-specific ecological remediation criteria





PROJECT #7

CLOSURE & INVESTIGATION OF FOUR (4) USTS AT HISTORIC SMITHVILLE PARK, EASTAMPTON TOWNSHIP, BURLINGTON CO., NEW JERSEY (NJDEP PI NO. 704149)

Contact:	Matthew Johnson, P.P., A.I.C.P.
Client:	Burlington County Department of Resource Conservation
Tel:	(856)642-3850
Duration:	2015 – Present

CME was retained to preside over the closure and investigation of four Underground Storage Tanks (USTs) (T-1, T-2, T-3, and T-4) at the Historic Smithville Park property, as follows:

UST T-3, Former School House: Behram Turan, P.E., LSRP was retained as the LSRP-of-record for Historic Smithville Park (PI No. 704149) in September 2015 to oversee the remediation of UST T-3. A discharge (NJDEP Case No. 13-04-09-1700-46) was reported in April 2013 following removal of a former 550-gallon No. 2 heating oil UST, identified as tank T-3. In March 2014, a limited site investigation was conducted by others. The UST was previously situated adjacently south of the School House building. CME prepared a Health and Safety Plan (HASP) and Quality Assurance Project Plan (QAPP) for the Site, prepared and submitted a UST Registration and Closure Approval, performed UST closure sampling and backfill soil quality testing, conducted a Remedial Investigation of Soil, Groundwater, and Vapor Intrusion including installation of monitoring wells, conducted Enhanced Fluid Recovery (EFR), and submitted a Site Investigation / Remedial Investigation Report including a CEA proposal in April 2017.

UST T-1, One Park Avenue: CME decommissioned a 550-gallon No. 2 Heating Oil UST at this location in August 2016. CME collected five (5) post-excavation soil samples. Targeted parameters were not detected during the initial investigation. No further action was recommended for this former UST. The closure of this UST has been documented in the April 2017 UST Closures and Site Investigation Report prepared by CME.

UST T-2, 802 Smithville Road: CME decommissioned the 1,000-gallon No. 2 Heating Oil UST (T-2) in August 2016. CME collected six (6) sidewall and two (2) centerline post-excavation soil samples (T-2A through T-2G) from a depth of 6.5-7.0 ft bgs. Total EPH was detected in three (3) post-excavation soil samples at concentrations which exceed the Residential SRC (5,100 mg/kg), but do not exceed the Non-Residential SRC (54,000 mg/kg). The total EPH concentrations detected in samples T-2D (12,000 mg/kg) and T-2H (11,000 mg/kg) also exceed the residual/free product determination trigger concentration (8,000 mg/kg) for No. 2 heating oil/diesel fuel. 2-methylnaphthalene was detected at a concentration which exceeds the IGWSSL, but does not exceed the SRS. The NJDEP was notified of the UST discharge and incident no. 16-08-23-1537-39 was assigned to the Site. A Remedial Action Workplan (RAW) was recommended. The closure of this UST has been documented in the April 2017 UST Closures and Site Investigation Report prepared by CME.



UST T-4, 815 Smithville Road: CME decommissioned a 1,000-gallon No. 2 heating oil UST (UST T-4) at this location in August 2016. CME collected eight (8) post-excavation soil samples (Total EPH was detected in two (2) post-excavation soil samples at concentrations which do not exceed the SRC for No. 2 heating oil or the contingent analyses trigger concentration. No further action was recommended for this UST. The closure of this UST has been documented in the April 2017 UST Closures and Site Investigation Report prepared by CME.



PROJECT #8

FORMER SOUTH RIVER METAL PRODUCTS BROWNFIELD REDEVELOPMENT SITE, ABERDEEN, MONMOUTH COUNTY, NEW JERSEY (NJDEP PI. G00008373)

Contact:	Bryan Russell, Township Manager
Client:	Township of Aberdeen
Tel:	(732)583-4200 ext. 117
Duration:	2006 – Present

On behalf of Aberdeen Township, CME Associates conducted a Site Investigation, Remedial Investigation, prepared a Remedial Action Workplan, and is overseeing remediation for redevelopment of an abandoned industrial site. The site has been the subject of several environmental investigations since at least the mid-1990s. Remedial activities were originally conducted under NJDEP direct oversight.



- As part of the remedial investigation, a total of 48 areas of concern (AOCs) on the site were evaluated. Soil contamination above the soil remediation standards was identified in 34 AOCs, including petroleum hydrocarbons, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) including polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and various metals. Groundwater contamination exceeding Groundwater Quality Standards (GWQS) is present in several areas of the site. The main contaminants of concern include VOCs (benzene and PCE) and nickel. CME issued a Remedial Investigation Report in December 2014.
- CME issued a Remedial Action Work Plan in December 2014 and RAWP Addendum in November 2015. Design of the RAW was coordinated with a specific site development plan for multi-unit residential buildings. A restricted use remedial action is being implemented that includes a combination of hotspot soil removal, capping, and institutional controls. A CEA was established for contaminated groundwater at the site.
- The remedial action was conducted via joint coordination between the Township and a private developer. CME Associates coordinated the site remediation and provided LSRP oversight of field activities. The remedial activities included the removal of several abandoned USTs and industrial piping, removal of debris and contaminated concrete, excavation of contaminated soil hotspots, verification soil sampling, and other activities.

The Site was redeveloped into two four-story apartment buildings, a senior center, and a conservation lot. In support of the Brownfield redevelopment, CME Associates prepared a Hazardous Discharge Site Remediation Fund (HDSRF) Application and obtained \$693,800 for the Remedial Investigation. An additional \$2,315,930 was approved to help finance the remedial action. The remedial action funding is based on a matching HDSRF grant with the developer and the Township contributing 25 to 50% of the total remedial costs.



PROJECT #9

LSRP SERVICES, FORMER COTTRELL FARM, OLD BRIDGE, MIDDLESEX COUNTY, NEW JERSEY (NJDEP PI NO. 596292)

Contact: Richard Lear, Director of Parks & Recreation
Client: Middlesex County Parks & Recreation
Tel: (732)745-5988
Duration: May 2014 – February 2016

CME Associates conducted a Preliminary Assessment, Site Investigation, Remedial Investigation and Remedial Action at the Former Cottrell Farm in Old Bridge Township between May 2014 and February 2016. Historically, the property has been used for agricultural and residential purposes since prior to 1841 and the County planned on preserving the property for agricultural use, passive open space, and government office space through the NJ Green Acres Program.

Previous investigations conducted by others identified five (5) Areas of Concern (AOCs) at the Site and CME's 2015 Preliminary Assessment identified five (5) additional AOCs, as follows:

- AOC #1: Lot 34 Farm Field/Orchard
- AOC #2: Lot 18 Orchard
- AOC #3: Lot 18 Forested Wetland
- AOC #4: Former Garage USTs
- AOC #5: Former House UST
- AOC #6: Existing Heating Oil AST
- AOC #7: Septic System and Leach Field
- AOC #8: Basement Sumps
- AOC #9: Generator in Garage
- AOC #10: Hazardous Materials Storage

Based on previous investigations conducted at the Site, CME recommended remedial actions be conducted to address contamination identified at AOC #1 and AOC #2; a Site Investigation/Remedial Investigation (SI/RI) was recommended for AOC #7 and AOC #9. CME's PAR recommended no further investigation for AOC #3, AOC #4, AOC #5, AOC #6, AOC #8 and AOC #10. Remediation of the former underground storage tanks (USTs) at the Site (AOC #4 & AOC #5) were previously completed by others.

A SI/RI, including a geophysical survey and soil borings, was conducted at AOC #7 and AOC #9 to evaluate potential contaminants of concern at these AOCs. Based on the analytical results, no further investigation was required for AOC #7 and AOC #9.

Remedial actions conducted at AOC #1 consisted of in-situ soil blending, and soil excavation and off-site disposal. Remedial actions conducted at AOC #2 consisted of soil excavation and off-site disposal. Based on the analytical results, soil contamination has been remediated to the applicable standards and no further action was recommended for AOC #1 and AOC #2. CME issued an unrestricted use Response Action Outcome (RAO) for the entire site in February 2016.





PROJECT #10

REMEDIAL INVESTIGATION, HAZLET TOWNSHIP POLICE DEPARTMENT, HAZLET, MONMOUTH COUNTY, NEW JERSEY (NJDEP PI NO. 030725)

Contact:	Dennis Pino, Township Administrator
Client:	Township of Hazlet
Tel:	(732)264-1700 ext. 8682
Duration:	2013 – Present



On behalf of the Township of Hazlet, CME Associates conducted a Remedial Investigation at the Hazlet Township Police Department site in Hazlet, New Jersey. An underground storage tank (UST) was removed from the site in 1999 and a discharge was reported to the NJDEP. Several environmental investigations took place between 1999 and 2005. VOC impacts to soil and groundwater were identified by others but the extent of contamination related to the former UST was not fully delineated.

The project included investigation of four (4) areas of concern related to the former UST: AOC-1: Former 550-gallon gasoline UST; AOC-2: Groundwater Media; AOC-3: Surface Water Media; and AOC-4: Indoor Air. As part of the remedial investigation, CME Associates performed the following activities:

- CME delineated VOC impacts in soil and groundwater. On July 31, 2015 and on September 22, 2015, CME advanced a total of 22 temporary borings/wells and collected thirteen (13) soil samples and nineteen (19) groundwater samples. In addition, monitoring wells MW-10, MW-11, MW-12 and MW-13 were installed by CME in February 2016. CME collected three (3) rounds of groundwater samples from the on-Site monitoring wells in June 2015, March 2016 and April 15, 2016. No LNAPL was detected. The extent of benzene, MTBE, TBA and VO-TICs impacts in soil and groundwater was delineated. CME determined the groundwater plume associated with benzene, MTBE and VO-TICs is contracting and concentrations are naturally attenuating.
- To investigate potential impacts to surface water in Flat Creek running through the Site, CME on July 31, 2015, collected five (5) surface water samples. Trace concentrations of MTBE were detected but did not exceed the applicable surface water screening criteria.
- In June 2014, to investigate potential VOC vapor intrusion impacts, two (2) sub-slab soil gas samples were collected by CME inside the building in the vicinity of the former 550-gallon gasoline UST. The sub-slab soil gas analytical results did not indicate the presence of the targeted analytes at concentrations exceeding the applicable Soil Gas Screening Levels.



CME Associates prepared and submitted a Remedial Investigation Report including a CEA Proposal in May 2016 and is currently preparing a Remedial Action Workplan.



PROJECT #11

REMEDIAL INVESTIGATION, PRINCETON MEADOWS GOLF COURSE, PLAINSBORO, MIDDLESEX COUNTY, NEW JERSEY (NJDEP PI NO. 000712)

Contact:	Ronald Sendner, County Engineer
Client:	Middlesex County
Tel:	(732) 745-3283
Duration:	February 2012 - Present

On behalf of Middlesex County Improvement Authority (MCIA), CME Associates has been providing LSRP services related to the Princeton Meadows Golf Course site located at 70 Hunters Glenn Drive, Plainsboro, Middlesex County, New Jersey. In 1992 and 1994, five (5) underground storage tanks were removed from the maintenance building area at the golf course. Free product was observed in the UST excavation and a discharge from one or more tanks was reported. A limited remediation to recover some free product was performed in 1996-1997, and various soil and groundwater investigations were conducted to evaluate the extent of contamination. Shallow groundwater at the site is contaminated with benzene and other gasoline constituents, and the contaminant plume extends offsite onto an adjacent condominium complex.



In 1992 and 1994, five (5) underground storage tanks were removed from the maintenance building area at the golf course. Free product was observed in the UST excavation and a discharge from one or more tanks was reported. A limited remediation to recover some free product was performed in 1996-1997, and various soil and groundwater investigations were conducted to evaluate the extent of contamination. Shallow groundwater at the site is contaminated with benzene and other gasoline constituents, and the contaminant plume extends offsite onto an adjacent condominium complex. A Remedial Investigation Report Addendum (April 2002) and a Remedial Action Workplan (June 2004) were submitted to the NJDEP for review and comment. The NJDEP issued a Notice of Deficiency (NOD) on April 6, 2011, and cited various corrective actions that the MCIA must complete within specified timeframes in order to comply with applicable regulations. The required corrective actions include implementation of an interim remedial action to address remaining free product.



Remedial activities at the site are proceeding under the direction of Behram Turan, P.E., LSRP. CME Associates conducted a Remedial Investigation at the Site between 2012 and 2016 consisting of a soil investigation, on-site and off-site groundwater investigation, off-site vapor intrusion investigation, and LNAPL delineation. CME prepared and submitted a Remedial Investigation Report, including a CEA Proposal, in May 2016. CME is currently assessing potential remedial action feasibility studies and preparing a Remedial Action Workplan.

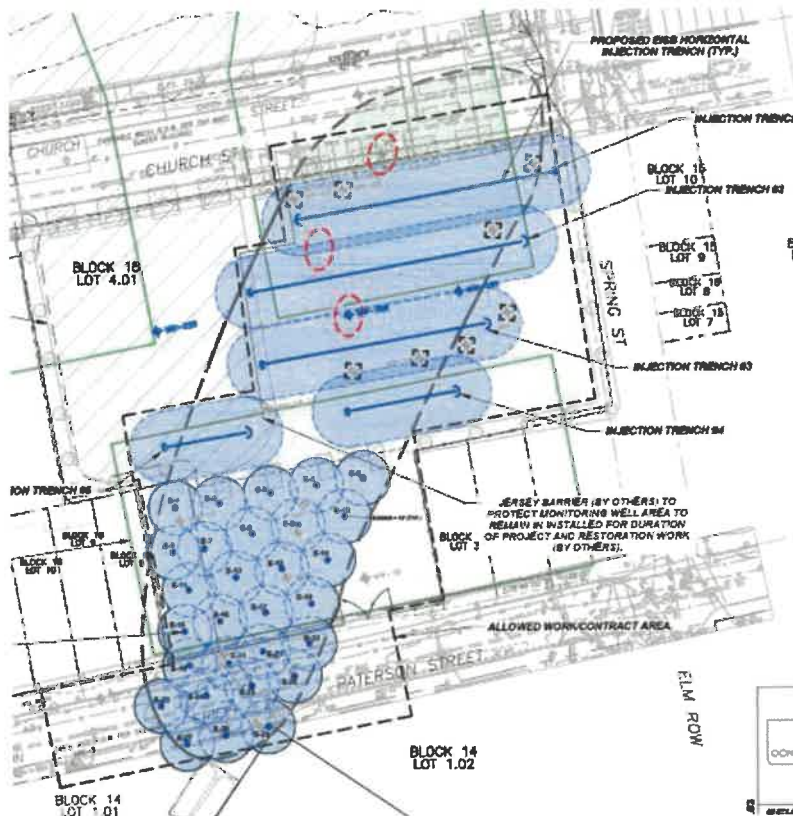


PROJECT #12

REMEDIAL INVESTIGATION, FORMER MIDDLESEX COUNTY ADMINISTRATION BUILDING, NEW BRUNSWICK, MIDDLESEX CO., NEW JERSEY (NJDEP PI NO. 012725)

Contact: Ronald Sendner, County Engineer
Client: Middlesex County
Tel: (732) 745- 3283
Duration: August 2015 - Present

Chemical constituents associated with two (2) former 20,000-gallon heating oil underground storage tanks are present in the groundwater at the Site, including, but not limited to, 2-Methylnaphthalene, 1-Methylnaphthalene, Volatile Organic Compound (VOC) Tentatively Identified Compounds (TICs) and Semi Volatile Organic Compound (SVOC) TICs. Contaminants were initially detected in the soil and/or groundwater in 1989. The contamination in the groundwater has migrated off-site. In addition, Light Non-Aqueous Phase Liquid (LNAPL) accumulation is also reported off-site.



The County of Middlesex is conducting remedial activities in accordance with the requirements of the NJDEP to address the LNAPL and the chemical constituents detected in groundwater. Between February and April 2016, extensive subsurface investigations were conducted by CME, including the installation of soil borings, temporary well points, and test pits along Paterson Street, within the Surface Lot portion of the Ferren Deck property, and along Church Street and Spring Street.

A Remedial Investigation Report (RIR) was submitted to the NJDEP on May 16, 2016. The RIR documents the investigative methods and findings and presents recommendations for remediation of each contaminated AOC. In addition, an Interim Remedial Measures (IRM) Report and the associated LNAPL Reporting Form

was submitted to the NJDEP under separate cover in May 2016. CME is conducted feasibility studies of potential remedial actions and prepared a Remedial Action Workplan (RAWP) in accordance with N.J.A.C. 7:26E-5.5 based on the findings of the remedial investigation. The RAWP was submitted to the NJDEP on September 1, 2021. CME prepared remedial action contract specifications and is overseeing the implementation of soil and groundwater remedial activities at the Site.



PROJECT #13

**UST CLOSURE, OLD HOMESTEAD FACILITY, FRANKFORD, SUSSEX CO., NEW JERSEY
(NJDEP PI NO. 023669)**

Contact:	Joseph Biuso, Director, Facilities Management
Client:	Sussex County
Tel:	(973)579-0490
Duration:	April 2012- December 2012



On behalf of Sussex County, CME Associates provided LSRP services related to the closure of a regulated 1,000-gallon leaded gasoline underground storage tank and associated remediation. The UST was located at the Old Homestead facility at 129 Morris Turnpike, Frankford Township, Sussex County, New Jersey. The former 1,000-gallon leaded gasoline UST was designated Tank D-2 and was removed on December 26, 1995. Tank D-2 had leaked and contaminated soil was excavated and disposed offsite. Post-remedial soil samples were collected immediately after the soil excavation and analyzed for volatile organic compounds (VOCs; VO+10) and lead. Xylenes were reported at concentrations above the current NJDEP default Impact to Ground Water Soil Screening Level (IGWSSL). A monitoring well was installed at the down-gradient side of the tank excavation in November 1997, and groundwater samples were collected in January and February 1998. VOCs, MTBE, and TBA were not detected in the groundwater. The well was properly abandoned.

CME Associates was retained by the Sussex County to provide LSRP services for the former 1,000-gallon leaded gasoline UST area. Remedial activities have been provided under the supervision of Behram Turan, P.E., LSRP, in accordance with NJAC-7:26C. In October 2012, CME conducted additional sampling in the former Tank D-2 area to confirm that no impact to soil remains above the current remediation standards. A series of soil borings were advanced to the top of bedrock in the area of concern and soils were screened for indications of contamination. Two discrete soil samples were collected for analysis of VO+15 and lead. Only trace levels of VOC TICs were reported, and lead concentrations were below the IGWSSL. No groundwater was encountered in the soil borings to a depth of 11 feet bgs.

Based on the findings of the post-remedial soil and groundwater sampling and the recent confirmatory soil sampling, CME Associates prepared a Remedial Action Report and recommended no further action for remediation of the former 1,000-gallon leaded gasoline UST area. On November 21, 2012, Behram Turan, P.E., LSRP, issued an unrestricted Response Action Outcome (RAO) for the Tank D-2 Area only.



PROJECT #14

UST CLOSURE AND INVESTIGATION, FORMER LINDEN POLICE DEPARTMENT JUVENILE BUREAU BUILDING, 13 KNOPF STREET, LINDEN, UNION CO., NEW JERSEY (NJDEP CASE NO. 14-06-04-1338-59)

Contact:	Nicholas Pantina, P.E., City Engineer
Client:	City of Linden
Tel:	(908)474-8470
Duration:	June 2014 – Present



On June 4, 2014, a 1,000-gallon No. 2 Heating Oil UST was closed under the direct supervision of CME. Upon removal, several small holes were observed in the UST and impacted soils were observed under the tank base. A discharge was reported to the New Jersey Department of Environmental Protection (NJDEP), and the NJDEP assigned Incident Number 14-06-04-1338-59 to the case. A Site Remediation Reform Act (SRRA) Confirmed Discharge Notification form was subsequently submitted to NJDEP. This heating oil release was associated with an unregulated UST (total capacity of 2,001-gallons or less) and oversight was provided by NJDEP's Unregulated Heating Oil Tank Program (UHOT). Behram Turan, P.E., LSRP of CME

managed remedial activities on behalf of the city.

After removal of the tank, slight petroleum-like staining and odors were identified in soils directly underlying the UST. These soils were screened with a photo-ionization detector (PID) which detected volatile vapors ranging from 56 parts per million (ppm) to approximately 470 ppm. No excavation of impacted soils was conducted. Four (4) soil samples were collected along the centerline of the UST footprint. Soils immediately below the UST were not impacted with EPH, naphthalene, or 2-methylnaphthalene concentrations above their respective remediation standards and screening levels. A groundwater sample collected in the former UST area was detected with elevated concentrations of benzene, VOC TICs, and various SVOCs above GWQS.

Based on elevated groundwater concentrations of benzene and SVOCs in the former UST area, a remedial investigation was recommended in accordance with N.J.A.C. 7:26E and NJDEP's *Groundwater Technical Guidance* document (Version 1.0, April 3, 2012). Additionally, further soil investigation was recommended to confirm that deeper soils in the former UST area are not impacted above IGWSSL. The UST closure and site investigation activities are summarized in CME's January 2015 UST Closure and Site Investigation Report.

CME subsequently conducted a Remedial Investigation consisting of the collection of additional soil and groundwater samples. Soil sampling was conducted to evaluate the deeper soils underlying the former UST. There were no exceedances of the applicable NJDEP SRS detected in any of the samples. No further investigation or remediation of this AOC is required. A groundwater investigation was conducted to delineate the extent of groundwater contamination. The investigation identified several VOCs and SVOCs at concentrations exceeding the GWQS. Based on the results of the investigation, the extent of groundwater contamination has been delineated. Due to the presence of contaminants above the applicable remediation standards, remediation of this AOC is required. CME is currently preparing a Remedial Investigation Report.



PROJECT #15

MONMOUTH COUNTY 2016 ON-CALL PROFESSIONAL ENGINEERING SERVICES RELATED TO AST AND UST SERVICES FOR VARIOUS MONMOUTH COUNTY FACILITIES

Contact:	Ms. Casey Hornstra, PG, Environmental Specialist 2
Client:	Monmouth County
Tel:	(732)431-7760 ext. 8992
Duration:	April 2016 – Present



CME performed On-Call Professional Environmental Engineering Services Related to AST and UST Services for Various Monmouth County Facilities for the period from April 1, 2016 through March 21, 2017. As part of the contract, CME completed the following tasks: (1) quarterly inspections of approximately eighteen (18) USTs and ASTs at various County facilities; (2) preparation of the design and technical specifications, and construction oversight for installation of a high-speed pump dispenser at Highway District #9; (3) closure of one (1) 1000-gallon Waste Oil UST (E-4) at the Monmouth County Reclamation Center; and, (4) preparation of a Spill Prevention Control and Countermeasure (SPCC) Plan for the Maintenance Building at MCRC, and updating the SPCC Plan for District #9 including the Wash Building Facility.

In January 2017, CME Associates performed a Site Investigation of a 1,000-gallon waste oil UST (Tank No. 00E4) at the Monmouth County Reclamation Center. Four (4) temporary soil borings were advanced via geoprobe to a total depth of fifteen (15) feet below ground surface on each side of the UST and one (1) soil sample was collected from each of the borings. The samples were analyzed for total extractable petroleum hydrocarbons (EPH). Results indicated soils at the boring locations were not impacted above applicable soil remediation standards, and there was not evidence of a discharge. However, soil environmental conditions are to be further evaluated upon removal of the UST.

In July/August 2016, and again in December 2016/ January 2017, CME Associates, with assistance from Accurate Tank Testing, LLC., completed quarterly inspection services for ASTs and USTs at eleven (11) Monmouth County locations. Following the inspections, CME prepared and submitted Quarterly Inspection Reports to the County.

In addition, as part of a contract for 2014 On-Call Environmental Engineering Services in support of the operation of the Monmouth County Reclamation Center facilities, CME previously performed a site investigation related to a former 1,000-gallon UST (E-5) at the Monmouth County Reclamation Center. No further investigation was recommended and CME issued RAO for the tank closure in December 2015.



PROJECT #16

PRELIMINARY ASSESSMENT / REMEDIAL OVERSIGHT ACTIVITIES, FORMER SUNOCO SERVICE STATION, FREEHOLD, MONMOUTH COUNTY, NEW JERSEY

Contact:	Robert Gallagher,
Client:	Ray Catena Motor Car Corp
Tel:	(732)549-6606
Duration:	May-September 2015



As part of a due diligence assessment of property conditions, CME Associates conducted a Preliminary Assessment, as well as conducted field oversight and split sampling services related to site remediation activities (by others) at the above referenced Site.

CME previously conducted a Preliminary Assessment (PA) which identified fourteen (14) Areas of Concern (AOCs) associated with the Site. CME recommended a Site Investigation (SI) be conducted at nine (9) of the identified AOCs.

The current property owner conducted remedial activities at the Site including the removal of three (3) gasoline underground storage tanks (USTs) at AOC #5 and two (2) fuel dispensers at AOC #6 during August 2015. CME provided field oversight and split sampling services in conjunction with the UST removal activities conducted by the property owner.

CME collected split soil samples from the same locations and at the same times as those collected by the property owner's consultant. CME's samples were submitted to TestAmerica Laboratories of Edison, New Jersey (NJDEP Certification No. 12028) for analyses.

Analytical results reported by the laboratory indicate that gasoline constituents were identified in several of CME's samples; however, the concentrations detected do not exceed their respective RDCSRS, NRDCSRS, and/or IGWSSL. Benzene was detected in one (1) of the property owner's Consultant's samples at a concentration which slightly exceeded the IGWSSL. Compliance averaging was utilized to achieve compliance with the remedial standard and CME concluded that the removal actions have achieved the remedial objective. The owner's Consultant issued an Unrestricted Use Response Action Outcome (RAO) for the three (3) 10,000-gallon gasoline USTs in September 2015.



CME personnel conducted a follow-up site inspection in September 2015 to assess site conditions. It was noted that the Waste Oil AST (AOC #7), Motor Oil AST (AOC #8), and Aboveground Hydraulic Lifts (AOC #10) previously identified at the Site had been removed.

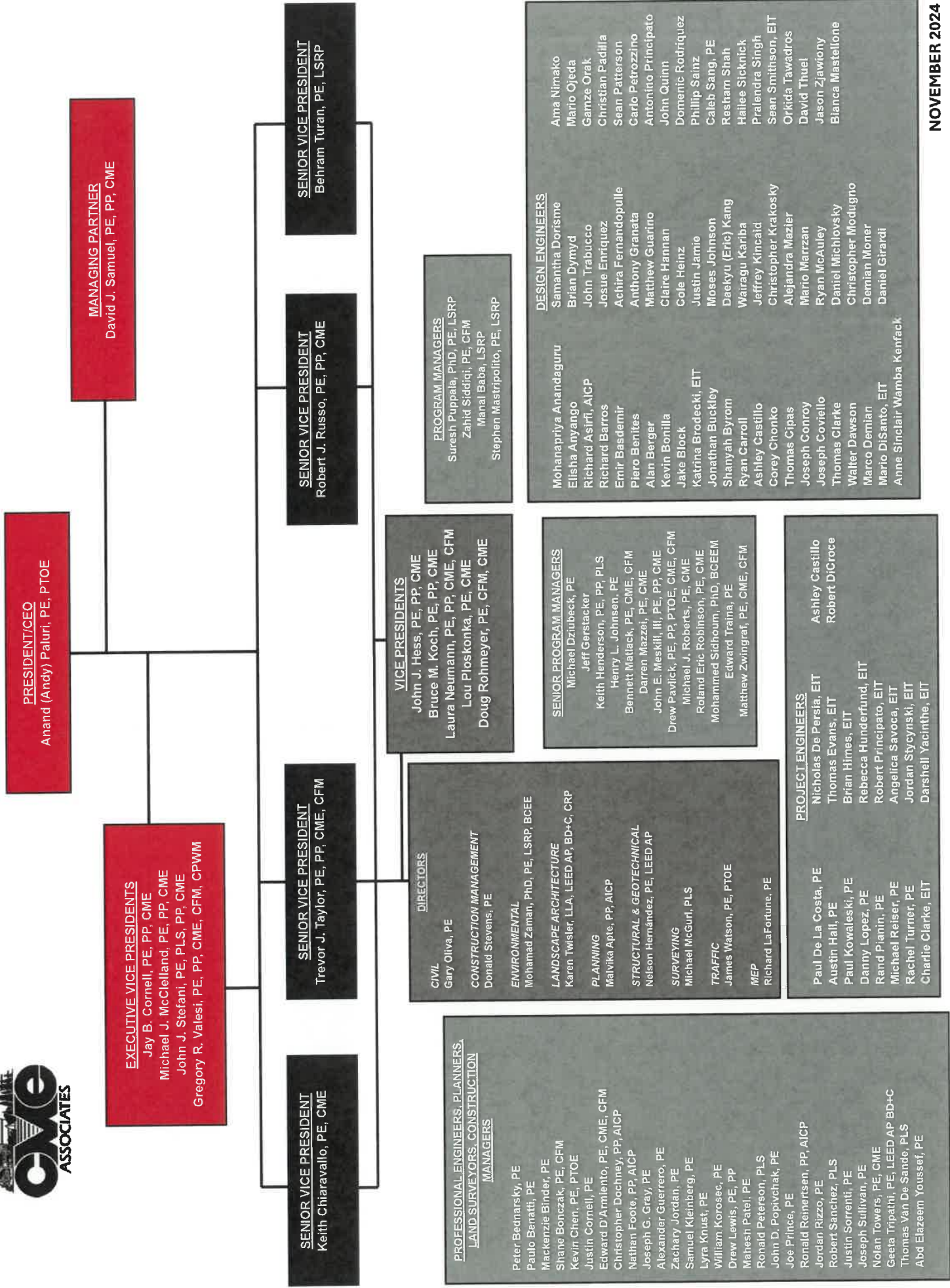
Section 5. Assigned Staff Qualifications



Organizational Chart



ORGANIZATION OF CME ASSOCIATES



List of Assigned Staff



LIST OF KEY PERSONNEL

- Behram Turan, P.E., LSRP, Principal, Director of Environmental Services
- Mohammad Zaman, Ph.D., P.E., LSRP, Assistant Director
- Suresh Puppala, Ph.D., P.E., LSRP, Project Manager
- Zahid Siddiqui, P.E., Project Manger
- James Sousa, Ph.D., LSRP, Project Manager
- Joseph Sullivan, P.E., Principal Engineer
- Mike McGurl, P.L.S., Manager of Field Surveys
- Nelson Hernandez, P.E., Director of Structural Engineering
- Alejandra Maizer, Project Leader
- Austin Bazuk, Associate Project Manager
- Drew Lewis, P.E., Senior Professional Engineer, Environmental
- Jordan Styczynski, Project Engineer, Environmental
- Salih Kokol, CSE, Licensed N2 Operator, Senior Scientist
- Jose Bustamante, Senior Geologist
- Rand Pianin, Associate Professional Engineer, Environmental
- Jacquelyn Fagan, Senior Scientist
- Ashley Castillo, Project Engineer, Environmental
- Katrina Brodecki, Environmental Engineer
- Pralendra Singh, Engineer, Environmental
- Christian Kuter, Lead Scientist
- Alan Buob, Lead Scientist
- Philip Catanzaro, Project Geologist
- Richard James Kemble, Project Geologist
- Bianca Mastallone, Associate Engineer, Environmental
- Emir Basdemir, Associate Engineer, Environmental
- Haley Wilmot, Associate Scientist

Resumes of Assigned Staff

BEHRAM TURAN, P.E., LSRP

SENIOR VICE PRESIDENT



EDUCATION:

Rutgers University, New Brunswick, NJ
Princeton University, Princeton, NJ
Advanced Graduate Level Course Work and
Research in Groundwater Flow and Mass
Transport, 1986-1991

Colorado State University, Fort Collins, Colorado
M.S., Hydrology & Water Resources
Management, 1984

Istanbul Technical University, Istanbul, Turkey
B.S., Civil Engineering, 1980

CERTIFICATIONS:

Professional Engineer, NJ, 1995 /
#24GE03921000

Professional Engineer, Delaware, 1994 / #9606
Licensed Site Remediation Professional (LSRP)
in NJ, 2009 / # 591482

Certified Subsurface Evaluator in NJ, 2003 /
#203210

PROFESSIONAL TRAINING

Chlorinated Solvent Site Investigation &
Implementation of In-Situ Remediation (2021)

Vapor Intrusion Investigation & Mitigation
Innovation Series (2021)

Remediation of Heavy Metals Using In-Situ
Approaches (2021)

Geotechnical Engineering and Linear
Construction During Site Remediation (2021)

RAOs – Is there Ever Finality (2021)

Using UVOST, TarGOST, and DyeLIF to
Characterize NAPL (2020)

Conceptual Site Models (2020)

PCB Remediation – What Every LSRP Needs to
Know (2018, 2020)

Vapor Mitigation Design and Installation (2020)

Variations – Diverging from a Rule while
Successfully Achieving Rule Objectives (2020)

What SRRA 2.0 Means to LSRPs (2020)

Rapid Design & Analysis of Ground Water
Remediation Systems (2018)

Groundwater in Fractured Bedrock (2018)

Remediation Methods for 1,4 Dioxane (2018)

In-Situ Chemical Oxidation Developments (2018)

LSRPA Regulatory Roundtable (2018, 2020, &
2021)

LSRP Ethics (2017, 2020)

NJDEP Case Study Training for LSRPs (2013)

NJDEP's Regulatory Training in Underground
Storage Tanks (2002, 2006, 2009, 2012, 2015,
2018)

40-hour OSHA Hazardous Waste Site Operations
Health and Safety Certification (1992)

8-hour HAZWOPPER refresher (yearly since
1992)

8-hour HAZWOPPER Supervisor/Management
(2006)

Extensive knowledge of surface water control
models, and groundwater flow and mass transport
models, including RMA2, TR55, HEC1, HEC2,
MODFLOW, MT3D, SESOIL, MOC (Konikov's
model) and PTC (Princeton Transport Code).

MEMBERSHIP AND AFFILIATIONS:

American Society of Civil Engineers
Solid Waste Association of North America

GENERAL QUALIFICATIONS

Mr. Turan is the Principal and Director of
Environmental Services of CME Associates. Mr.
Turan has over 30 years of experience in the
fields of environmental engineering, including site
remediation, brownfields redevelopment,
management of dredged materials and beneficial
reuse, solid and hazardous waste management,
wetlands mitigation, surface water hydrology,
hydrogeology, groundwater flow and contaminant
mass transport, and water resources planning.
Mr. Turan is a Professional Engineer in the state
of New Jersey, a Licensed Site Remediation
Professional (LSRP), and a Certified Subsurface
Evaluator. Mr. Turan has successfully completed
a number of challenging site remediation projects
leading to No Further Action Letter determinations
from the NJDEP. Mr. Turan has issued a total of
fifty (50) Response Action Outcomes (RAOs)
since the initiation of the LSRP Program. Mr.

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Turan also has provided expert testimony and litigation support.

SUMMARY OF EXPERIENCE:

LSRP Program Experience

- Principal and LSRP in charge performing remedial investigation and remedial action at the Former South River Metals Redevelopment Site, Aberdeen, New Jersey, and identifying an integrated planning and management strategy for remediation and ultimately redevelopment of the site. The project involved conducting a Site Investigation, Remedial Investigation, and Remedial Action for the site in accordance with NJAC 7:26E. A Remedial Action Report for Soils was submitted to NJDEP, Remedial Action Permits for soil were issued by NJDEP for each of the residential lots, restricted Use Response Action Outcomes (RAOs) for all soil AOCs were issued, and a Remedial Action Report including a classification exception area (CEA) for the groundwater and surface water contamination at the site was submitted. A Remedial Action Permit for Groundwater is pending with the NJDEP and a RAO for groundwater will be issued upon completion of the groundwater RAP.
- Principal in charge and LSRP of record for remedial investigation, remedial action workplan, and remedial action for soil and groundwater contamination associated with the former heating oil UST discharge at the Former Middlesex County Administration Building.
- Principal in charge and LSRP of record for the preparation of remedial investigation and remedial action workplan for groundwater related to the release of a former gasoline UST at the Middlesex County Improvement Authority Tamarack Golf Course in accordance with Technical Requirements for Site Remediation.
- Principal in charge and LSRP of record for the remedial investigation and remedial action conducted for areas of concern associated with former and existing USTs on the site, as well as with former auto repair operations. The site was redeveloped as a Fire House by the Borough of South River.
- Principal in charge of and LSRP of record for remedial investigation, remedial action workplan, and remedial actions for soil and groundwater contamination at the Former Wolfson Parking Deck.
- Principal in charge and LSRP of record for remedial investigation and remedial action related to the groundwater contamination emanating from former USTs for the Roosevelt Care Center in accordance with the Technical Requirements for Site Remediation.
- Principal in charge and LSRP of record for the remedial investigation, remedial action workplan, and ecological evaluation of sensitive receptors concerning heavy metals contamination of Lenape Park in Union County in accordance with Technical Requirements for Site Remediation.
- Principal and LSRP in charge of site remediation related to the closure of a regulated 1,000-gallon leaded gasoline underground storage tank and associated remediation at the Old Homestead Facility in Frankford Township in Sussex County. Based on the findings of the post-remedial soil and groundwater sampling included in the Remedial Action Report, Mr. Turan issued an unrestricted Response Action Outcome (RAO) for the former 1,000-gallon UST.
- Principal and LSRP in charge of remedial activities related to Princeton Meadows Golf Course in Plainsboro, Middlesex County, New Jersey. Remedial activities are related to the soil and groundwater contamination associated with the former five (5) USTs removed from the maintenance building area at the golf course. The required corrective actions include implementation of an interim remedial action to

BEHRAM TURAN, P.E., LSRP SENIOR VICE PRESIDENT



address remaining free product and offsite contamination.

- Principal and LSRP in charge providing LSRP services related to Multiyear LSRP services for five Road Maintenance Garage (RMG) locations within the County of Sussex. Soil and groundwater at the site are contaminated at levels above the applicable remediation standards. Remedial activities were provided under the supervision of Mr. Turan, in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E), and the Administrative Requirements for the Remediation of Contaminated Sites N.J.A.C. 7:26C-6.2(c).
- Principal and LSRP in charge of a site investigation at an ISRA facility in an industrial complex in Hillsborough Township. Mr. Turan prepared all necessary documents to bring the site in compliance and issued a Response Action Outcome (RAO) for the site.
- Principal and LSRP in charge of remediation of Penska Farm located in Marlboro Township. Mr. Turan oversaw the remedial investigation and remedial action of the site and brought the site from the initial preliminary assessment report through to an RAO.
- Principal and LSRP in charge of remediation of a mixed-use lot in Jersey City. Mr. Turan oversaw remedial activities and issued a site-wide RAO for the site.
- Principal and LSRP overseeing the complete remediation from Preliminary Assessment through Remedial Action for a child-care center in the City of Clifton. Mr. Turan conducted remedial activities and issued an unrestricted use RAO for a child-care center.
- Principal and LSRP in charge of bringing a vacant site into compliance for the Woodbridge Redevelopment Agency along Lincoln Highway in Woodbridge for open space. Mr. Turan oversaw the site from the site investigation

through remedial action and restoration of the site. Upon completion, an RAO was issued for this site.

- Principal and LSRP in charge of a 100.34-acre open space site in Monroe Township for Middlesex County. Mr. Turan prepared a Remedial Action Work Plan to address areas of concern at the site. After execution of the workplan, Mr. Turan issued an unrestricted use AOC-based RAO for the site.
- Principal and LSRP in charge of conducting remediation at the Department of Public Works Facility in Old Bridge Township. Three existing USTs were identified as Areas of Concern.
- Principal and LSRP in charge of conducting all remedial activities for a 187.8 acre property formerly used for agricultural purposes in South Brunswick Township. Mr. Turan brought the site from a Preliminary Assessment through remedial activities to the issuance of an RAO.
- Principal and LSRP in charge of preparing a Remedial Investigation and Remedial Action Report for a preschool and park in North Brunswick Township. Mr. Turan as the LSRP brought the sites into compliance and issued two (2) Unrestricted RAOs for the sites.

Brownfields Redevelopment & Site Remediation

- Principal in charge for providing environmental engineering services to the Sayreville Economic and Redevelopment Agency (SERA) regarding the redevelopment over 400 acres of waterfront land into a prosperous mixed-use development consisting of residential, retail, office space, hotels, entertainment and recreation in Sayreville, New Jersey.
- Principal in charge for the implementation of the environmental improvement activities related to the landfill closure and redevelopment of the Former PSE&G and City

BEHRAM TURAN, P.E., LSRP SENIOR VICE PRESIDENT



of Bayonne Landfill Sites in Bayonne, New Jersey, including the implementation of final cover system, construction oversight of golf club structures, design and construction oversight of the underslab gas ventilation system for the Club House, implementation of landfill gas control system and design of final enclosed flare, operations of the leachate control system and leachate pre-treatment system, regulatory compliance for NJDEP permit requirements, Preparation of Remedial Action Report, and procurement of a site-wide No Further Action Letter.

- Principal in charge of managing and implementing the soil and groundwater remedial investigation activities at the former Springfield Drum Site, located at 146 Lincoln Boulevard in the Borough of Middlesex, New Jersey. The site remediation activities are being funded through a Brownfield Assessment grant provided by the U.S. Environmental Protection Agency (EPA). Remedial investigation was conducted to further delineate previously identified soil contamination, evaluate the presence of groundwater contamination, and evaluate the shallow subsurface for any buried metal objects related to former site use. Based on the findings of field investigations, a Remedial Investigation Report (RIR) was prepared recommending additional activities.
- Principal in charge of performing remedial investigation at the Former South River Metals Redevelopment Site, Aberdeen, New Jersey, and identifying an integrated planning and management strategy for remediation and ultimately redevelopment of the site. A Remedial Investigation Workplan (RIW) and a grant through the Hazardous Discharge Site Remediation Fund were prepared for the planned remedial investigation activities. The remedial investigation was conducted in multiple areas of concern related to soil, groundwater, sediment, and surface water contamination. The findings of this investigation were presented in a Remedial Investigation Report.
- Principal in charge of the site investigations related to the soil and groundwater contamination at the former Middlesex Bus Co. Site, East Brunswick, New Jersey. A remedial investigation was performed to delineate the horizontal and vertical extent of soil and groundwater contamination on the site. The findings of this investigation were presented in a Remedial Investigation Report. In addition, a Remedial Action Workplan was developed.
- Principal in charge of preparing Remedial Action Workplan, and Corrective Action Report for delineation and removal of TSCA Hazardous PCBs impacted soils, and was a NJDEP designated independent Fill Review Engineer including field QA/QC of over five million cubic yards of imported beneficial reuse materials including Processed Dredged Materials (PDM) for the closure and remediation activities at the Meadowlands Golf Course Redevelopment Project site in Lyndhurst and Rutherford, New Jersey.
- Principal in charge of redevelopment of a portion of the ILR Landfill for a proposed 550,000 SF warehouse/office building including site environmental improvements in Edison, New Jersey, including Site Investigation and Remedial Investigation, Remedial Action Workplan (RAW) for site redevelopment, Landfill Closure and Post-Closure Care Plan, and preparation of land use permit applications including LOI, and Waterfront Development Permit.
- Principal in charge of directing remedial investigation for soil and groundwater contamination emanating from a former dry cleaner at the Cranford Crossings Redevelopment site, a part of downtown revitalization effort in the Township of Cranford, New Jersey, including preparation of the

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Remedial Action Report documenting the remedial actions for chlorinated volatile organic contaminated soil and groundwater, and obtaining the No Further Action letter for the entire site.

- Principal in charge for the redevelopment of a Former Hess Oil and Gasoline Bulk Storage Facility in Newark, New Jersey into a Dredged Materials Processing facility. Directed remedial investigation and remedial action activities including Remedial Investigation for soil and groundwater, development of Remedial Action Workplan, and implementation of remedial action for soil and groundwater.

Solid and Hazardous Waste Management

- Solid Waste Engineer in charge of providing GCIA with services for the operation and permitting of the GCSWC including: i) annual topographic survey; ii) annual engineering report; iii) annual inspection; iv) landfill gas flare emissions testing/reporting; v) surface and perimeter landfill gas monitoring; vi) statistical analyses for the Groundwater Detection Monitoring Program; vii) statistical analyses for the NJPDES permit for storm water basin recharge; viii) permit renewal and compliance assistance for the Title V Air Pollution Control Operating Permit; ix) design, contract administration, construction oversight, and inspection services for the construction of Cells 13, 14, and 15; x) preparation of the design for the Lateral Landfill Expansion of approximately 71 acres, and obtain approval for the Amendment to the Gloucester County District Solid Waste Management Plan for the Phase IX Development Lateral Expansion; xi) leachate treatment pilot study; xii) design of two pump stations for the GCUA regional sewage/leachate forcemain; xiii) prepared updates to the Landfill Closure/ Post-Closure Financial Plan; and xiv) on-call services including litigation support and other services

required by the Authority.

- Solid Waste Engineer in charge of providing defined and on-call professional services for the Cumberland County Landfill, as well as providing defined and on-call professional services in connection with the operation and permitting of the Cumberland County Solid Waste Complex, including: i) Annual Topographic Survey Report, ii) Annual Engineering Report, iii) Annual Inspection Report, iv) Statistical analyses associated with Groundwater Detection Monitoring Program, v) Statistical analyses associated with NJPDES permit for storm water basin recharge, vi) Design of stormwater management system including additional detention basins, vii) Design of a new infiltration basin as a part of enhanced site-wide Stormwater Management Plan, viii) Preparation of the Renewal of Solid Waste Facility Permit and Minor Modification, ix) Preparation of updates to the Landfill Closure/ Post Closure Financial Plan, x) Performance evaluation of the existing leachate treatment system and designing/overseeing the expansion plan for increased leachate treatment capacity, xi) Re-certifications of constructed landfill cells, and xii) Provisions of other on-call landfill services as necessary.
- Solid Waste Engineer for the Middlesex County Utilities Authority in connection with the operation and permitting of the Middlesex County Landfill, including NJPDES compliance services, annual inspection and report for the stormwater system and update of the Stormwater Pollution Prevention Plan (SWPP), and updates to the Middlesex County Landfill's Closure/Post-Closure Financial Plan Update. Mr. Turan recently designed and oversaw the installation of an odor control and mitigation system and interim cap at the landfill.
- In charge of providing defined and on-call services for the Monmouth County Reclamation Center Landfills, including i)

BEHRAM TURAN, P.E., LSRP SENIOR VICE PRESIDENT



Semiannual ground water protection program compliance reports for MCRC; ii) Semiannual ground water contour map for both the upper Kirkwood and Vincentown Aquifers; iii) Annual Compliance Statement, Semiannual Deviation Reports, Annual Emission Statement, Annual Greenhouse Gas Report for the MCRC Title V Operating Permit; iv) Quarterly letter report and monitoring location map for the results of perimeter gas testing at Howell Landfill; v) Semiannual letter report for the results of laboratory gas testing from three gas vents at Howell Landfill; vi) Annual topographic report for the approximate 266-acre area of the Phase I, II and III landfills as required by N.J.A.C. 7:26-2A.8 for submission to the NJDEP; vii) Closure permit, NJPDES permit and Title V permit compliance and monitoring services; viii) Prepared updates to the Landfill Closure/ Post Closure Financial Plan including the new Lateral Landfill Expansion, and ix) On-call services include activities related to the landfill operations.

- In charge of providing Bergen County with professional engineering services related to the former Overpeck Landfill Areas I, II, III, and IIV in Bergen County, New Jersey, including annual waste water services, exhaust air sampling, annual pump station operation and management, alarm system calibration, quarterly groundwater monitoring, closure and post-closure operation and maintenance, quarterly NJDEP reporting, and quarterly landfill gas monitoring.
- In charge of the implementation of the landfill closure and redevelopment activities for the former City of Bayonne Landfill Site in Bayonne, New Jersey, including Fill Acceptance Protocol and Review Engineer for final cover system, design of containment system including slurry wall and leachate collection and conveyance system, operations of the leachate control system and leachate pre-treatment system, implementation of final

cover system including Processed Dredged Materials, design of underslab gas ventilation system for the Club House, design of landfill gas control system and enclosed flare, and regulatory compliance for NJDEP permit requirements.

- In charge of landfill closure and redevelopment of a portion of the ILR Landfill for a proposed 550,000 SF warehouse/office building in Edison, New Jersey, including preparation of Landfill Closure and Post-Closure Care Plan, preparation of Major Landfill Disruption Permit application, preparation of landfill capping system, and preparation of landfill gas collection and conveyance system.
- In charge of landfill closure and post-closure activities for the City of Linden Sanitary Landfill in Linden, New Jersey, including design of the active landfill gas extraction and control system and enclosed flare, Quality Assurance services for the landfill closure activities including final capping system, stormwater management system, preparation of Landfill Closure and Post-Closure Plans with environmental improvements which included a slurry wall and leachate collection system. The project also included the attainment of all applicable local and state permits. Directed construction oversight for the environmental improvements of the City of Linden Landfill.

Regulatory Compliance and Permitting

- Principal in charge of providing engineering services related to the permit renewal and compliance assistance for the Title V Air Pollution Control Operating Permit at the Gloucester County Landfill Facility.
- Principal in charge of providing engineering services for the Monmouth County Reclamation Center Landfills, including NJPDES permit and Title V permit compliance and monitoring services.
- Principal in charge of preparing design and a

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Pre-construction Subchapter 8 Permit Application and an Air Pollution Control Operating Permit (Title V) Application for an active gas collection system consisting of 54 gas extraction wells and an enclosed flare at the City of Linden Sanitary Landfill located in Linden, NJ.

- Principal in charge of preparing a Subchapter 8 pre-construction permit application for gas collection system consisting of 26 wells and an enclosed flare for landfill closure and redevelopment of the former City of Bayonne Landfill and PSE&G Sites to Bayonne Golf Club in Bayonne, New Jersey
- Principal in charge of preparing a Pre-construction Subchapter 8 permit application including negotiations for permit conditions with NJDEP and USEPA for landfill gas collection system consisting of 160 wells, an enclosed flare and a sub-slab ventilation system for landfill closure and redevelopment of the former Industrial Land Reclaiming Landfill to Middlesex Logistics Center Warehouse in Edison, New Jersey
- Principal in charge of preparing a Pre-construction Subchapter 8 permit application for a passive landfill gas venting system, and a Pre-construction Subchapter 8 air permit application for the former Plainsboro Landfill in Plainsboro, New Jersey.
- Principal in charge of procuring the environmental permits for the NJTA Interchange 12 Final Improvements project including NJDEP Freshwater Wetlands General Permit Nos. 12 and 14, an Individual Freshwater Wetlands Permit/ Waterfront Development, Water Quality Certification, Transition Area Waiver and Coastal Consistency and Individual Section 10 and 404 Permit from the U.S. Army Corps of Engineers, and preparation of wetlands mitigation proposal, and engineering design of compensatory wetlands mitigation for

approximately 10-acre area including the procurement of NJDEP and ACOE permit approvals.

- Principal in charge of procuring NJDEP permits for the redevelopment of a portion of ILR Landfill in Edison, NJ, including, Waterfront Development Permit, Landfill Closure and Post-Closure Plan, Major Landfill Disruption Permit, and Closure and Post-Closure Financial Plan, and Remedial Action Workplan approval.
- Principal in charge of procuring NJDEP permits for the redevelopment of a Former Hess Oil and Gasoline Bulk Storage Facility in Newark, New Jersey, including Waterfront Development Permit, Applicable Use Determination for the Dredged Processing Facility, Nationwide ACOE permit, and Air Permit for the operation of the facility.

Expert Testimony and Litigation Support

- Prepared expert report and provided technical support for litigation concerning the landfill slope failure and fugitive gas emissions from the toe drain related to the design and construction of the Final Cover of Cells 1A and 1B at the Gloucester County Solid Waste Complex.
- Prepared expert report for a litigation concerning the conduct of an environmental firm in the performance of Phase I and limited Phase II environmental site assessments for a commercial property transaction.
- Prepared expert report and provided technical support for Passaic Valley Sewerage Commissioners ("PVSC") regarding Spectraserv Pollution Control Facility's non-compliance with the NJDEP permit requirements for the stabilized sewage sludge materials at disposal facility in North Jersey.
- Prepared expert report and provided litigation support for the New Jersey Turnpike Authority Interchange # 12 Final Improvements project

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- regarding cost recovery action against one of the property owners. Expert Report included evaluation of the existing site contamination and the required site remediation with respect to the identified soil and groundwater contamination. In addition, the Expert Report included rebuttals of certain opinions with respect to site remediation requirements and associated costs.
- Prepared an expert report and testimony for a litigation concerning the migration pathways of benzene contamination in soil and groundwater, and potential impact of mercury soil contamination on groundwater resulted from former operations of the chemical plant in Clifton, New Jersey.
 - Prepared an expert report for litigation to provide expert opinion and technical support regarding the source(s) of the soil and groundwater contamination emanated from a former gas station operation in New Jersey in an effort to recover costs associated with the performance of soil and groundwater investigations as well as soil remediation at the property.
 - Prepared an expert report and rebuttal for PRP litigation to identify relative contributions of responsible parties for the cleanup and remediation costs of approximately \$40 million for a superfund site located immediately upgradient to the site by performing a regional groundwater flow and contaminant mass transport modeling in Fair Field, New Jersey.

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MOHAMMAD R. ZAMAN, Ph.D., PE, LSRP, BCEE

DIRECTOR OF ENVIRONMENTAL SERVICES



EDUCATION:

Ph.D. Envr. & Water Res. Engg. Texas Tech
M.S. Envr. & Water Res. Engg. Texas Tech
B.S. Civil Engg, BUET, Bangladesh

PROFESSIONAL REGISTRATIONS:

Registered Professional Engineer: New Jersey
(Lic.# 24GE04798000), Pennsylvania, & New York
NJ Licensed Site Remediation Professional
(LSRP Lic.# 575492)
NJDEP UST Certification Subsurface
Evaluation, Closure & Testing (Lic.# 500383)
Licensed (N2) Industrial Wastewater Treatment
System Operator (Lic. # 0022142)
OSHA 40-Hour HAZWOPER; OSHA 8-Hour
Refresher HAZWOPER, 2016
Board Certified Environmental Engineer (BCEE)
for Hazardous Waste Management by
American Academy of Environmental Engineers

GENERAL QUALIFICATIONS:

Dr. Zaman has more than 20 years of professional experience in providing technical and regulatory compliance services. He has provided LSRP services and issued Remedial Action Outcome (RAO) to bring closure to contaminated site. Dr. Zaman is experienced in planning and developing remedial strategies; evaluating and implementing innovative and emerging technologies; designing, specifying, commissioning, and operating state-of-the art wastewater and remediation/pollution control systems. He has extensive experience in soil and groundwater characterization, groundwater flow and contaminant fate & transport modeling, and the design and implementation of innovative soil and groundwater remediation technologies. He managed numerous remediation projects involving closure of underground storage tanks (UST), in-situ and ex-situ soil and groundwater remediation and mass soil excavation and off-site disposal.

SUMMARY OF EXPERIENCE:

Selected LSRP Services:

Estate of George Coe III, Middletown, NJ, PI#213994

Soil contamination was identified during the due diligence process in a wetland area within the easement of Township of Middletown Sewerage Authority. Horizontal and vertical delineations of the contaminant of concerns (COCs) including PAHs and Arsenic were completed. Approximately 1000 tons contaminated soil was excavated and properly disposed offsite and the disturbed wetland was restored to pre-remediation conditions in compliance with the approved NJDEP permit guidelines. An unrestricted use AOC-Specific RAO was used to close the site on July 8, 2011.

Millburn Former Exxon Service Station, Essex County, NJ, PI#008979

Soil and groundwater contamination was identified during the historical decommissioning of seven (7) underground storage tanks at a gasoline service station. The township of Millburn retained Dr. Zaman to complete the horizontal and vertical delineations of the contamination and to develop a cost-effective Remedial Action Work Plan. Currently, the site is under remedial action implementation phase utilizing Epson Salt to augment sulfate concentration for Enhanced Anaerobic Bioremediation (EAB).

Remedial Design and Engineering, and Ground Water Modeling

Responsible for planning and developing remedial strategies; evaluating innovative and emerging technologies; designing, specifying, commissioning, and operating state-of-the art remediation/pollution control systems. The following is a brief description of some of the relevant projects:

Remedial Design for the Former Manufactured Gas Plant (MGP) Site, Jersey City, New Jersey

Developed remedial design for hydraulic containments, extractions, and treatments of organic and inorganic contaminants including Dense Non-Aqueous Phase Liquids (DNAPL), dissolved organics, ammonia, and metals.

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Historically, the property was occupied by a former coal gasification or manufactured gas plant (MGP site), rail yards, warehousing and shipping docks, and in later years, a former gasoline service station. Due to the large aerial extent (approximately 26 acres) of the dissolved and free-phase plume areas in overburden and bedrock water bearing zones, presence of high pedestrian traffic, and extensively developed urban infrastructures, three (3) modular extraction systems are designed to be installed. A pilot testing program was conducted to evaluate the performance of a state-of-the-art treatment system consisting of electrolytic oxidation/electro-coagulation and ultrafiltration units.

Hercules Chemical Company, Inc, Passaic, NJ: Underground Storage Tanks (USTs) Closure

Provided professional engineering services to decommission eleven (11) USTs of various sizes ranging from 1500 gallons to 5000 gallons. These USTs were located inside an active manufacturing building.

Remedial Design and Implementation for Sulfuric Acid Spill Site, Linden, New Jersey

Designed and implemented fast-track emergency remedial measures to restore low pH impacted soil and groundwater emanated from the spill of 98% sulfuric acid. Designed and installed the subsurface alkaline leach bed, groundwater extraction/neutralization/ reinjection system to restore the impacted soil and groundwater within a severely limited physically constrained area. Dr. Zaman obtained expeditious approvals for the NJDEP coastal land use and discharge to groundwater permit-by-rule authorizations for fast-track implementation of the remedial measures.

Remedial Action for Chlorinated Volatile Organic Compounds in Groundwater, Roselle, New Jersey

The objective of the remediation activities for this site was to identify, delineate and remediate contaminants of concern to the applicable remediation standards. The targeted contaminants of concern for groundwater encompass chlorinated volatile organic compounds (CVOC) tetrachloroethene (PCE),

trichloroethene (TCE) and breakdown daughter product cis-1,2-dichloroethene (cis-DCE). In-Situ Reduction (ISR) utilizing Emulsified Vegetable Oil (EVO) was selected as the most appropriate technology for CVOCs in groundwater for the Site.

Parmalat Welsh Farm Neptune Facility, Neptune Township: In-Situ Chemical Oxidation for BTEX (2011-2012)

Conducted extended remedial investigation and designed / implemented In-Situ Chemical Oxidation (ISCO) plan as a part of final remedial action to treat the residual VOCs (benzene, toluene, ethylbenzene, and xylene) in a confined aquifer overlain by semi-permeable layer and unconfined aquifer. All three zones contained the residual VOC contaminants extended up to 65-ft below the ground surface.

Middlesex County Fire Academy: Underground Storage Tank Removal and Aboveground Storage Tanks Installation, Sayreville, NJ

Provided client contact, construction management, and regulatory compliance oversight services. MCFA received Notice of Violations due to various non-compliances related to ten underground storage tanks (USTs) and oil-water separators ranging in size from 550 gallons to 20,000 gallons. Designed and implemented pre-closure soil and groundwater investigation to prepare cost-effective closure plans with variances approved by NJDEP. Prepared public bid documents for the removal of USTs and installation of underground oil-water separators and aboveground storage tanks (ASTs) ranging in size from 2000 to 25000 gallons. Designed leak-detection monitoring and various pump operation control systems. Developed EPA Spill Prevention Control and Countermeasure (SPCC) plan for the site. Custom designed process water treatment for 2500 gpm flow rate to treat the "oily water" generated from "Burn-Pit" fire training.

Globe Petroleum / Citgo Service Station, Welsh Farms, Red Bank, NJ

The NJDEP designated the case to be of "Immediate Environmental Concern" due to the environmental exposure emanating from historical release of gasoline from a series of underground storage tanks. Implemented an emergency environmental response

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and comprehensive soil & ground water investigation / remediation program at the site located adjacent to the environmentally sensitive Navesink River. The installed in-situ soil and groundwater treatment system was operational for four years. Secured NJDEP permits for air quality and discharge to surface water. The NJDEP issued "No Further Action" letter for the site which is currently under institutional control with CEA for natural attenuation.

Society Hill at Droyers Point, Jersey City, NJ
Conducted Site Investigation (SI) / Remedial Investigation (RI) / Remedial Action (RA) leading to the removal of soils that exceeded the residential standards for Hexavalent Chromium and disposal of soils at off-site landfill. Slurry wall installed to isolate the project site from outside contaminant sources, and capillary breaks/liners installed to provide added protection from potential groundwater sources. Conducted groundwater modeling utilizing GMS Package that uses MODFLOW to investigate the groundwater mounding and impact of the slurry wall surrounding the project site. Designed vapor barrier/mitigation system for the residential buildings. NJDEP issued NFA for the site.

Stormwater Management and Permitting

Dr. Zaman has developed Stormwater Management Plans for numerous new subdivisions totaling more than 5000 units. Representative project experience includes the following:

Demolition of Aluminum Manufacturing Plant, Confidential Client, Maryland.

Developed soil erosion and sediment control plan in compliance with the regulatory requirements for demolition of aluminum manufacturing facility on a 160-acre plus site. The pre-demolition site contained multiple chemical solution baths to facilitate cathodic reactions and detention and retention basins. The proposed post-demolition site contains graded lands ready for future developments.

Four Seasons at Wall, New Jersey

Developed soil erosion & sediment control and stormwater management plans for an active adult community new subdivision consisting of more than 400 single-family units, multiple condominium units, and a commercial complex consisting of a super market and a mini strip mall. The integrated stormwater management plan includes five (5) interconnected detention/retention basins. Extremely complex permitting process required state and federal approvals due to the presence of endangered species at the immediate downstream of the project site. Delineated 100-year floodplain and obtained stream encroachment permit.

Jasper Creek Feasibility Study and Rehabilitation, Newark, New Jersey

Conducted hydrologic and hydraulic analyses utilizing TR-20 and HEC-2 computer programs to identify the causes of frequent floods and drainage congestions within the watershed. Evaluated the existing conveyance capacity of the tidally influenced creek containing multiple bridges/culverts and tide gates and performed the alternative analysis to optimize the channel improvement costs.

Mahwah Honda Site Improvement, Mahwah, New Jersey

Located within the FEMA flood hazard zone, a portion of the site was subjected to frequent flooding problems. The site was divided by a long undersized pipe culvert. Conducted complex hydrologic and hydraulic analysis utilizing TR-20, HEC-2, and XP-SWMM models to design an underground flood storage vault and a replacement pipe culvert which was relocated along the perimeter of the property. The site was regarded to raise it above the 100-year flood elevation. Secured the NJDEP land use regulation permit and provided the client contact and construction management.

JAMES SOUSA, Ph.D., LSRP PROGRAM MANAGER



EDUCATION:

Ph.D. Geosciences: Penn State University (1996)
M.S. Geology: Penn State University (1989)
B.S. Geophysics: Lehigh University (1985)

CERTIFICATIONS:

Licensed Site Remediation Professional in New Jersey (LSRP No. 586573)
Certified Subsurface Evaluator in New Jersey (License No. 216355)
OSHA 40-hour HAZWOPER Training Certification
OSHA 8-hour HAZWOPER Refresher

TRAINING:

Regulatory Training in Underground Storage Tanks
Innovative Technologies for Site Remediation
Applied Soil Science for Remediation of Contaminated Soil
Contaminated Fractured Rock Hydrogeology and Geophysics
Groundwater in Fractured Bedrock
Ecological Risk Assessments
Methodology of Delineating Wetlands

GENERAL DESCRIPTION OF EXPERIENCE:

Dr. Sousa is a Project Manager and Geologist with 16 years professional experience in environmental engineering and remediation in New Jersey. He has worked on all phases of remedial projects, ranging from preliminary assessments and remedial investigations to implementation of remedial actions and post-remedial monitoring. Dr. Sousa is experienced in soil and groundwater investigations and remediation, ecological evaluations, and contaminant modeling, and is familiar with New Jersey environmental regulations. He has prepared successful HDSRF Grant applications and has managed several remedial investigations employing HDSRF Grants and EPA Brownfield Remediation Grants.

EXPERIENCE:

SITE REMEDIATION PROJECTS

Former South River Metal Products Redevelopment Site, Aberdeen Township, New Jersey

Dr. Sousa managed the remedial investigation at an abandoned industrial facility in Aberdeen, Monmouth County, New Jersey. The work was conducted on behalf of the Township of Aberdeen, and the investigations were funded through a Hazardous Discharge Site Remediation Fund (HDSRF) grant. The initial grant award and supplements totaled \$700,811 for site and remedial investigation activities. Dr. Sousa coordinated all drilling, field sampling, and laboratory work. A total of thirty-four (34) contaminated areas of concern were identified on the site and a Remedial Investigation Workplan was prepared and approved by the NJDEP. The general objective of the remedial investigation was to determine the extent of soil and groundwater contamination on the site and to evaluate potential contaminant migration pathways including surface drainage

JAMES SOUSA, Ph.D., LSRP PROGRAM MANAGER



ditches and historic stormwater piping. Investigations were also performed to characterize the site geology and develop a Conceptual Site Model for the project. Soil contaminants at the site include petroleum hydrocarbons, VOCs, PAHs, PCBs, and various metals including arsenic, lead, and nickel. Contaminants of concern in groundwater include benzene, chlorinated VOCs, and nickel. Ecological evaluations were conducted, including sampling of wetland soils, stream sediment, and surface water. A Remedial Investigation Report was approved by the NJDEP. Dr. Sousa managed two interim remediation projects at the site that were related to the removal of a 15,000 gallon PCB oil tank, a 6,500 gallon No. 6 oil tank, and a 5,000 gallon No. 4 oil tank, including contractor coordination, field oversight, soil excavation, waste disposal, post excavation sampling, and report preparation. CME Associates is coordinating with the Township to redevelop the site for multi-unit residential use, and preparation of a final Remedial Action Workplan is ongoing.

Princeton Meadows Golf Course Site, Plainsboro, New Jersey

Dr. Sousa is managing the remedial investigation at the Princeton Meadows Golf Course site located in Plainsboro, Middlesex County, New Jersey. The work is being conducted on behalf of the Middlesex County Improvement Authority (MCIA). Dr. Sousa managed the remedial activities including the initial efforts to remove LNAPL used a bio-slurping and Enhanced Fluid Recovery (EFR) method. In these methods, LNAPL is remediated via a combination of vacuum-enhanced recovery and bio-venting processes. The EFR method implemented in the June 2012 LNAPL recovery effort at the site employed a mobile soil venting unit to apply a vacuum to extract vapor, product, and groundwater from the well. Dr. Sousa prepared an LNAPL Interim Remedial Measures Report and continues with the remedial activities.

Layton Maintenance Garage, Layton, Sussex County, New Jersey

CME Associates has been retained to provide LSRP services to the County of Sussex for its Layton Maintenance Garage in a multi-year contract. The site soil and groundwater has been impacted by leaking various underground storage tanks. Dr. Sousa is managing the remedial investigation activities at the site. The ongoing remedial investigation at the site involves soil and groundwater sampling to delineate contamination and delineating extent of LNAPL. Interim remedial actions involve LNAPL recovery and activated carbon treatment of the potable well water that serves the garage. Dr. Sousa prepared an LNAPL Interim Remedial Measures Report. Dr. Sousa prepared a Remedial Investigation Work plan (RIW) and Receptor Evaluation for the Layton Maintenance Garage, and is managing the remedial activities at the site in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E).

Frankford Maintenance Garage, Frankford, Sussex County, New Jersey

CME Associates has been retained to provide LSRP services to the County of Sussex for its Frankford Maintenance Garage in a multi-year contract. A 2,000 gallon leaded gasoline UST was removed in December 1996. Also in 1996, a diesel fuel UST was removed and a kerosene UST was abandoned in place. A second diesel fuel UST was removed in April 1999. Soil and groundwater at the site are contaminated at levels above the applicable remediation standards. Groundwater in the vicinity of the former gasoline tank is impacted by volatile organic compounds (VOCs) including benzene and chlorinated VOCs.

The NJDEP issued a Notice of Deficiency (NOD) on September 29, 2009, indicating that the remedial investigation of soils, groundwater, sediment, surface water, and wetlands was not complete. Dr. Sousa prepared a Remedial Investigation Work plan (RIW) and Receptor Evaluation for the Frankford Maintenance

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Garage (NJDEP File No. 95-04-04-1633-25; NJDEP PI No. 010005), and is managing the remedial activities at the site in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E).

Former Springfield Steel Drum Redevelopment Site, Middlesex Borough, New Jersey

Dr. Sousa managed the remedial investigation at a former industrial site in Middlesex Borough, Middlesex County, New Jersey. The work was conducted on behalf of the Middlesex County Improvement Authority (MCIA), and the investigations were funded through an EPA Brownfield Remediation Grant. Dr. Sousa coordinated and implemented a remedial investigation of soil and groundwater in several areas of concern related to historic site use. Investigations included preparation of a Quality Assurance Project Plan, a geophysical survey, and implementation of a soil boring and sampling program including x-ray fluorescence (XRF) screening for arsenic. A groundwater investigation was conducted to assess potential impacts to an overburden water bearing zone and a shallow bedrock water bearing zone, including offsite contamination. Shallow groundwater at the site is impacted with arsenic, lead, and antimony, and wells were sampled using a Low Flow Purging and Sampling (LFPS) method to accurately assess metals contamination. Dr. Sousa coordinated with a developer to prepare a remedial action workplan consistent with a plan for multi-unit residential redevelopment of the property.

Former Redemption Power Site, Plainfield City, New Jersey

Dr. Sousa is managing the remedial investigation at the site of a former dry cleaning facility in Plainfield, Union County, New Jersey. The work is being conducted on behalf of the City of Plainfield, and the investigations are funded through an EPA Brownfield Remediation Grant. Remedial investigations of the contaminated areas of concern were conducted, including underground storage tank systems, floor drains, hazardous materials storage and handling areas, and waste disposal areas. Dr. Sousa managed an interim remediation involving the closure of PCE and heating oil USTs and soil excavations, including contractor coordination, field oversight, post-remedial sampling, and report preparation. Soil contaminants of concern include petroleum hydrocarbons, PCE, PAHs, pesticides, and metals. Groundwater is impacted with PCE, and remedial investigations of groundwater are ongoing. The City is considering various options for redevelopment of the property, including park/community garden and possible residential use.

Bloomfield DPW Site, Bloomfield Township, New Jersey

Dr. Sousa managed a remedial investigation at an active public works facility in Bloomfield, Essex County, New Jersey. The work was conducted on behalf of the Township of Bloomfield and was funded through a Hazardous Discharge Site Remediation Fund (HDSRF) grant. Investigations were implemented to delineate the extent of soil contamination in areas of concern associated with former USTs and tank piping systems, to characterize impacts to groundwater. The investigations are ongoing, and an application for additional HDSRF funding was submitted to the NJDEP.

Former Middlesex Bus Company Site, East Brunswick Township, New Jersey

Dr. Sousa managed the remedial investigation and remedial action workplan preparation at the site of a former bus depot in East Brunswick, Middlesex County, New Jersey. The work was conducted on behalf of East Brunswick Township, and was funded through a Hazardous Discharge Site Remediation Fund (HDSRF) grant. Soil contaminants of concern include petroleum hydrocarbons, BTEX, PAHs, pesticides, and metals. An

JAMES SOUSA, Ph.D., LSRP PROGRAM MANAGER



investigation was implemented to delineate the extent of soil contamination and evaluate potential ecological impacts to a stream on the property. Monitoring wells were installed to evaluate the extent of benzene and ethylbenzene contamination in shallow groundwater. A Remedial Action Workplan consistent with potential residential redevelopment of the site was prepared and approved by the NJDEP.

Department of Public Works Site, Carteret Borough, New Jersey

Dr. Sousa managed a remedial investigation and remedial action at a former wastewater treatment facility in Carteret, Middlesex County, New Jersey. Investigations were implemented to delineate the extent of soil and groundwater contamination in areas of concern associated with former gasoline and heating oil USTs. A Remedial Action Workplan consistent with redevelopment of the site for use as a DPW facility was prepared. Impacted soils were excavated and disposed offsite. A monitored natural attenuation remedy was implemented for contaminated groundwater and a CEA was established.

Matchaponix Avenue & North State Home Road, Monroe, New Jersey

Dr. Sousa managed a remedial investigation and remedial action at a mixed use property in Monroe Township, Middlesex County, New Jersey. Soil contamination associated with a heating oil UST, fill material, and a non-residential septic system was remediated. A post-remedial groundwater investigation was conducted to confirm no impacts to groundwater. A cap was installed and a deed notice was established for contaminated fill. Dr. Sousa coordinated the work with the project LSRP and managed the remedial oversight, post-excavation sampling, and report preparation.

Pulda Farm, South Brunswick Township, New Jersey

Dr. Sousa managed a remedial investigation and remedial action at a residential and agricultural property in south Brunswick, Middlesex County, New Jersey. The work was conducted on behalf of the Middlesex County Improvement Authority (MCIA) Township in association with its open space conservation program. Soil contamination related to ASTs and debris piles was excavated and disposed offsite. Dr. Sousa coordinated with the project LSRP and took the lead investigative role in all aspects of the remedial process from a preliminary assessment through the remedial investigations of soil and groundwater. Dr. Sousa managed the remediation including contractor coordination, field oversight, post-remedial sampling, and final report preparation.

Livingston Municipal Complex, Township of Livingston, NJ

Dr. Sousa managed the remedial investigation and remedial action at a municipal facility in Livingston Township, New Jersey. Contaminated historic fill was identified on the site, and a Remedial Action Workplan for capping was developed and implemented in coordination with the construction of a municipal complex and police station.

SURESH PUPPALA, PHD, PE, LSRP PROGRAM MANAGER



EDUCATION / CERTIFICATION:

New Jersey Institute of Technology,
PhD in Civil Engineering (1993 – 1998)

New Jersey Institute of Technology,
MS in Environmental Engineering (1991 – 1993)

Osmania University, Hyderabad,
BS in Civil Engineering (1987-1991)

New Jersey Professional Engineer
License No. 24GE04315300

New Jersey LSRP
License No. 590707

GENERAL DESCRIPTION OF EXPERIENCE:

Suresh Puppala has over 15 years of experience in environmental engineering. His experience spans the gamut from academic research to consulting engineering services associated with characterization and remediation of impacted soil/groundwater. He has managed several projects whose assessed values ranged from a few thousand to multi-million dollars. His remediation experience included implementation of several traditional and innovative in-situ remediation technologies at pilot scale (lab/field) and full scale (e.g., pneumatic fracturing, soil vapor extraction, enhanced natural attenuation, etc.).

REPRESENTATIVE PROJECTS:

Carteret Landfill Redevelopment, Carteret, NJ:

Managed various environmental aspects (during the final stages) of a landfill closure and redevelopment (construction of 1,250,000 sf of warehousing facilities) funded by the New Jersey Environmental Infrastructure Trust. Specifically, communicated /negotiated with New Jersey Department of Environmental Protection as needed; overseeing site grading operations, landfill capping soil quality control and placement; approved subcontractor submittals associated with installation of leachate collection/treatment system, landfill gas collection system, temporary and permanent landfill gas flares; analyzed compliance of the landfill gas extraction system with the NJDEP air permit requirements (i.e., flare sizing analysis to ensure emissions comply with the air permit, type of control/safety devices to be utilized, etc.); evaluated landfill gas detection systems for building interiors; prepared and submitted monthly progress reports and a Landfill Closure Report.

Whippany Landfill, Whippany, NJ:

Managed O&M activities associated with a closed landfill adjacent to an active logistics center. Specifically, ensured

compliance with the NJDEP air permit; negotiated with NJDEP modifications to the air permit (elimination of activated carbon control units etc.); prepared RADIUS submittals to NJDEP to modify air permit; managed emissions compliance sampling/reporting, landfill gas monitoring and facility inspection and groundwater compliance sampling.

Municipal Complex, Washington Township, NJ:

Managed the characterization of soil and groundwater impacts associated with a petroleum discharge from an underground storage tank. The project was complicated by litigation (cancer patient), commingling plume for different entities and local pumping influences of nearby domestic wells. Several nested monitoring wells within the overburden and bedrock were installed. Oriented rock cores were obtained, borehole flow-meter tests were conducted to facilitate contaminant fate and transport analysis.

Former Dry Cleaning Facility, Spring Lake, NJ:

Managed the characterization and remedial alternatives analysis of free-phase, soil and groundwater impacts. The groundwater impacts extended several hundred feet down-gradient of the source area and were a potential indoor air quality concern for several residences in the vicinity. The investigation was complicated by the local geology (comprising of alternating clay and sand strata) and the depth (~ 100 ft bgs) to which the groundwater impacts extended.

The characterization of the site included collection of tens of soil, groundwater and indoor air samples. The samples were collected from temporary borings and several nested monitoring wells. Extent of free-phase was delineated based on partitioning of amounts of PCE in collocated soil and groundwater samples collected based on the results of a Membrane Interface Probe (MIP) investigation. Remedial alternatives analysis included bench-scale testing by a subcontractor to evaluate the feasibility of addressing the impacts utilizing enhanced natural attenuation techniques. Indoor air quality impacts on-site and in one residence down-gradient were alleviated by installing a sub-slab depressurization system.

Former Keystone Metal Finishers, Secaucus, NJ:

Managed the remediation of chlorinated volatile organic compounds impacting the groundwater. Enhanced natural attenuation techniques were utilized and involved injection of amendments (HRC). The amendments injection was completed at several hundred boring locations within a grid on-site and off-site. Managed collection of indoor air quality samples from homes located down-gradient of the site and related community outreach.

ZAHID SIDDIQUI, PE PROGRAM MANAGER



EDUCATION / CERTIFICATIONS:

University of Oklahoma, Norman, OK
M.S., Environmental Engineering - 1994

N.E.D. University of Engineering and Technology, Pakistan
B.S., Civil Engineering - 1989

University of Karachi, Karachi, Pakistan
B.Sc., Biological Sciences - 1985

PUBLICATIONS AND PRESENTATIONS:

- Flood Resiliency Study for Swan Creek, Lambertville, NJ – Presented at New Jersey Flood Plain Managers Conference, October 2017.
- Flood Mitigation Strategies for Highly Urbanized Areas – A Case Study of Lister Avenue, Newark, NJ. Presented at New Jersey Flood Plain Managers Conference, October 2016.
- Landfill Siting Using GIS – A Demonstration. Published in ASCE Journal of Environmental Engineering, June 1996

GENERAL QUALIFICATIONS:

Mr. Siddiqui has 25 years of experience in site planning and development, surface water hydrology and hydrodynamic modeling, stormwater management, and green infrastructure. He is a licensed professional engineering in New Jersey and Virginia, and is a certified floodplain manager.

PROFESSIONAL EXPERIENCE:

Senior Project Manager (Apr. 2018 to Aug. 2020)

- Working in the water sector of the company, the main function is to support water and wastewater infrastructure projects with civil design and permitting.
- Design and permitting of a 1 MG CSO underground tank with a flushing system and odor control system.
- Prepared a stormwater master planning study for JFK Airport, assessing facility's near term (the target year 2055) and far-term (the target year 2085) needs, based on the impact of regional climatic changes and planned expansion of airport services.
- Prepared a storm hardening study for the USACE Galveston District. This area was hit hard by Hurricane Harvey in August 2017. The study developed conceptual storm hardening schemes for the City of Galveston, Clear Creek, and Dickinson Bayou.
- Prepared engineering analysis for draining the Catskills Water Supply Aqueduct during proposed rehabilitation of the aqueduct.
- Prepared a dam break study for Bearhole Reservoir. The study was prepared using the FEMA DSS WISE system.
- Prepared a dam classification study for Lenape Park Dam on the Rahway River. The study was prepared using the 2D Model in HEC-RAS.
- Prepared MS4 Stormwater Pollution Prevention and Municipal Stormwater Management plans.

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ZAHID SIDDIQUI, PE PROGRAM MANAGER



- Prepared an MS4 implementation reference manual for that included: Illicit discharge detection and elimination program; stormwater facility maintenance program, solids, and floatables control program and standard operating procedures for the Department of Public Works and MS4 related flyers for public outreach.
- Prepare hydrologic and hydraulic studies for various planned stream crossings for PennEast Pipeline. This thirty-inch gas pipeline will connect the Marcellus Shale region in Pennsylvania to New Jersey and is about 114 miles long.
- Prepare site development plans for various building additions to water and sewer treatment plants across new jersey.

Principal Engineer to Senior Project Manager (Jun. 2002 to Apr. 2018)

- Worked in the real estate development division of the company and responsible for managing project designs, schedules, engineering proposals, budgets, lead a team of engineers and interact with clients.
- Well versed in design standards and permitting requirements of various local, state and federal agencies for site development.
- Prepared engineering feasibility studies and yield analysis for various commercial and residential development projects.
- Site plan design and permitting of a range of commercial and residential developments, including: helipads, golf courses, corporate campuses, residential subdivisions, mixed-use developments, religious institution, community college campuses, public utility power lines, schools, fast food restaurants, hotels, concrete mix plant, warehouses, residential plot plans, retail establishments, banks, public parks, athletic tracks.
- Developed General Development Plan (GDP) and Master Plans for various institutions including: county college, mining establishment, pharmaceutical campuses, mixed-use campuses.
- Performed feasibility study for five different helipad locations based on FAA Advisory Circular AC 150/5390-2C and NJDOT guidelines. Provided design, permitting and construction support services for three on-ground heliports, one elevated helipad on a seven-story parking garage and one on-ground Heli-parking facility.
- Well versed in Phase II stormwater management regulations, designed stormwater management facilities for numerous sites to meet water quality, recharge, runoff, and nonstructural management standards.
- Conducted hydrologic studies, ranging from studies to diagnose and rectify city neighborhood drainage problems to studies of streams with several square mile wide watersheds.
- Conducted hydraulic studies of streams and ditches and established floodplains and flood hazard areas per NJDEP and FEMA guidelines.
- Prepared dam classification studies and dam break analysis
- Developed Geodatabases containing geolocation of Flood Insurance Studies Discharges (FIS) for all Pennsylvania Counties and Potomac River Basin. This work was performed for FEMA Region III. Developed Geodatabases containing Low, Medium and High wave hazard zones using Limit of Wave Action (LiMWA) lines for all Coastal Counties in Delaware, Maryland, and Virginia. This work was performed for FEMA Region III.

Project Manager - (Jan.'01 to Jun. '02)

- Prepared site plans for commercial, industrial, and residential uses involving grading plans, stormwater management systems, lighting plans, subdivision plans, attainment of final site plan approvals, wetlands permits, stream encroachment permits, and soil erosion and sediment control plan certifications.

ZAHID SIDDIQUI, PE PROGRAM MANAGER



- Designed a piping system to reroute a stream carrying 250 cfs flow, included hydrological modeling of surface runoff, hydraulic design of a system of culverts, design of erosion control structures, procurement of stream encroachment permits.
- Developed design and specification of the containment system for Brownfield Sites. Included groundwater mapping/modeling, soil-Bentonite slurry wall, HDPE barrier wall, liner system, leachate collection system, and pump stations.
- Designed a 15,000 feet retrofit leachate collection system for an old landfill site (Brownfield) using pneumatic pumps.
- Designed landfill gas collection system for a 400 acres landfill gas to energy facility
- Stability analysis of slopes for 300 acre Brownfield Site and designed geogrid slope reinforcements and sheet piles.
- Coordinate moving and re-establishment of a two-story house undamaged to a location several miles from origin.

Adjunct Professor - (Jan.'01 to Jun.'01) Rutgers University, New Brunswick, NJ

- Introduction to Computer-Aided Design and Drafting, Department of Civil Engineering and Environmental Science

Project Engineer Through Project Manager - (Jan.'95 to Jan.'01)

- Developed site plans for professional offices, athletic facility, port facility, waste recycling facility, and houses of worship. The projects included preparation of a grading plan, stormwater management plan, and attainment of final site plan approvals.
- Designed fifteen state of the art new MSW Landfills. The design included site selection studies, geological mapping, groundwater and stormwater modeling, modeling of gas generation rates, seismic stability analysis, design of the liner and capping systems, design of leachate collection and disposal systems, design of stormwater management system, design of gas collection and venting system, and scheduling construction activities.
- Performed a regional groundwater flow and contaminant transport modeling to identify the relative contributions of responsible parties in order to assign cleanup and remediation costs for a superfund site.
- Managed the design of an under-slab gas evacuation system for an Extended Stay America hotel being built on a former landfill, a Brownfield site.
- Designed pump stations and lift stations for various leachate, and sewage collection systems.
- Groundwater flow and contaminant transport modeling using three-dimensional groundwater modeling systems.
- Supervised state of the art CAD and GIS department. Trained employees on the use of AutoCAD, Land Development Desktop, Civil Design, and ArcGIS.

JOSEPH SULLIVAN, PE
PRINCIPAL GEOTECHNICAL ENGINEER



EDUCATION / CERTIFICATION:

Newark College of Engineering
B.S. Civil Engineering

New Jersey Institute of Technology
M.S. Geotechnical Engineering

New Jersey Professional Engineer
License No. 246EO3939900

- 30-hr OSHA Outreach Program - Construction

GENERAL DESCRIPTION OF EXPERIENCE:

Mr. Sullivan has over 35 years of experience as a Geotechnical and Structural Engineer. He has had extensive design and field experience in the geotechnical aspects of site feasibility studies, subsurface explorations, slope stability and settlement analyses, sheeting designs, bulkhead designs, the installation of shallow and deep foundations and the control of fill placement on major earthwork projects, and the monitoring of jacked casing and compaction grouting procedures at several interceptor crossings.

SPECIFIC EXPERIENCE:

Various NJDOT Bridge/Road Projects Term Agreement

Project Engineer performing field inspection of test borings, roadway asphalt cores, solicitation and awarding of geotechnical testing subcontractors, preparation of geotechnical reports, planned and evaluated laboratory testing programs.

Middlesex County Utilities Authority Solid Waste Landfill

Resident Engineer for French and Parrello Associates during all expansions of landfill occurring between 1986 and 2015. Monitored and reported all aspects of construction and supervised contractors and technicians during installation of multi-layered composite liners, drainage culverts and channels, Sierrascape retaining walls, paved roadways and storm water basin, post-tensioned box-culvert, and subgrade stabilization with geogrid.

Various Bridge, Roadways, Dams and other Structures- New Jersey State, County, and Municipal Clients

Planning and oversight of subsurface explorations and evaluations, geotechnical instrumentation including cone penetration testing, piezometers, inclinometers, strain gages, post-tensioning of dam foundation, Ground Penetrating Radar, piling vibration monitoring, and subgrade CBR and asphalt testing. Subsurface exploration and construction monitoring for reconstruction of portion of federal highway per AASHTO LRFD Bridge Specifications

and FHWA Geotechnical Engineering Manual. Performed shallow foundation and pile designs and analyses, bearing capacity, slope stability, seismic overturning and liquefaction evaluations, settlement calculations, surcharging with wick drains, and permeability evaluations. Ground improvement evaluation and design by surcharging with wick drains, dynamic compaction, grout injection, geogrid reinforcing and soil nailing. Design/evaluations sheet piling, reinforced concrete retaining walls, steel pipe piling, micro tunneling, jacked pipe crossings. Conducted several Phased dam inspections and reports and served as Resident Engineer on rehabilitation of gravity and earthen embankment dams, & spillways. pipe piling, micro tunneling for 2,000 ft., stormwater outfall and pumpstation within organic peat formation. Foundation design and analysis for pedestal and mat-supported water tanks over 1MG. Structural assessment, design, cost estimating for \$5M rehabilitation of County wastewater treatment facility, including steel framing, vehicular and construction loads on two-way elevated reinforced concrete slabs per NJDOT Design Manual. Performed settlement, seepage control, overturning and sliding analysis, bearing capacity, and slope stability evaluations for dams.

New American Airlines Terminal, JFK Airport

Field Manager of environmental sampling and testing during removal of jet fuel, construction of drainage system and high-strength, flexible concrete runway pavement, cementitious grouting, demolition of steel frame structures in active airport and runways.

Fresh Kills Landfill Final Cap - NY State Department of Sanitation

Construction oversight and Quality Control Manager of 300-acre site. Work included partial demolitions, reconstruction and widening of nine (9) mile perimeter roadway, new roadways and culvert, gabion retaining walls, concrete outlet structures and guiderails per NYDOT Design Manual. Landfill cap and cover including slope stability analysis, piezometers, geotextile subgrade support, post-tension precast concrete culvert, surface stormwater drainage swales, analytical soil testing review and reporting, earthwork and geotextile testing, spray-on waterproofing, grouting and piling.

Superstorm Sandy Damage Repair - Numerous Commercial and Residential Clients

Structural/Geotechnical engineer for damage assessment, design, preparation of repair details, subsurface explorations, site plans and construction oversight of house lifts, helical and timber piling, pedestrian bridge abutment, stair structure and retaining walls, decks, Tensar Geogrid ground improvements, building and house additions.

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MICHAEL MCGURL, PLS, CFS
DIRECTOR (SURVEYING)



EDUCATION / CERTIFICATIONS:

New Jersey Institute of Technology
B.S. Surveying Engineering Technology 1993

Rutgers University Cook College
B.S. Exercise Physiology 1985

New Jersey Professional Land Surveyor
License No. GS 38338

Pennsylvania Professional Land Surveyor
License No. SU-054826-E

New York Professional Land Surveyor
License No. 050463-1

New Jersey Certified Floodplain Surveyor
License No. NJ-35

OSHA Trained per 27 CFR 1910.120 (E), (1.2)

OSHA Trained per 27 CFR 1910.120 (E), (3)

PROFESSIONAL AFFILIATIONS:

- NJ Society of Professional Land Surveyors
- American Congress on Surveying & Mapping
- National Society of Professional Land Surveyors
- Tau Alpha Pi National Engineering Honor Society

GENERAL DESCRIPTION OF EXPERIENCE:

Mr. McGurl has over thirty seven years experience in boundary and right-of-way surveying. This experience has included: the preparation of right-of-way documents, large boundary surveys, establishment of horizontal and vertical control networks through land based and satellite techniques, hydrographic and topographic mapping, research of public and private title records, and the preparation of legal descriptions for fee and easement acquisition. Over the past twenty years Mr. McGurl has prepared right-of-way mapping for the New York State Department of Transportation, New Jersey Department of Transportation, New Jersey Turnpike Authority, and various county and municipal clients throughout New Jersey.

SPECIFIC EXPERIENCE:

NYC-DDC Underground Storage Tanks

Design, reconnaissance, construction and adjustment of a GPS Network encompassing the five Boroughs of New York City for the New York City Department of General Services. The GPS Network was controlled by nine (9) horizontal stations (North American Datum of 1927) and five (5) vertical stations (National Geodetic Vertical Datum of 1929). Overall 76 horizontal control points were set from this network.

Horizontal (State Plane Coordinates, New York East Zone) and vertical control surveys of 85 hazardous sites within the Boroughs of the Bronx, Brooklyn, Manhattan, Queens and Staten Island, involving the New York City Department of General Services. State plane coordinates were established by GPS. Vertical information was related to the various Borough vertical datums. Several sites required the establishment of astronomic azimuths because the close proximity of man made structures prevented the use of GPS.

Route 25A, Suffolk County, NY

Right-of-Way acquisition & realignment mapping of Route 25-A, Suffolk County, NY, impacting 450 land parcels for N.Y.S.D.O.T., Region 10.

Supervise survey department in the day-to-day activities, including: marketing, proposal preparation, review boundary analysis, contract negotiations, billing, accounts receivables and employee relations.

Improvements to GSP Interchange 142, Union, Hillside and Irvington, NJ

Provided the Right-of-Way, storm and sanitary sewer as-built surveys of approximately four miles of U.S. Highway Route 78 (I-78) and three miles of the Garden State Parkway in the vicinity of Interchange 142. The General Property Parcel and Individual maps were prepared in accordance with NJDOT and New Jersey Turnpike Authority standards for twelve parcels.

Main Street & Woodbridge Center Drive, Woodbridge, NJ

Provided Boundary, Topographic, Right-of-Way and utility surveys for the realignment and widening of CR 514 and improved access to Woodbridge Center Drive. The project was immediately adjacent to twenty-five residential and commercial private properties and required the acquisition of fee and/or easement parcels from seven property owners.

Xanadu Recreation Complex, Secaucus, NJ

Prepared the Boundary, Right-of-Way, Topographic, Utility and Hydrographic surveys for the design and proposed development of the Xanadu Complex on the former Brendan Byrne Arena site. Prepared the ALTA-ACSM survey of the Brendan Byrne Arena property, reestablishment of the existing rights-of-ways for New Jersey State Highway Route Nos. 3 and 120, Paterson Plank Road, and a portion of the New Jersey Turnpike immediately adjacent to the proposed development.

EXPERIENCE:

Surveying experience: 38 years

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NELSON HERNÁNDEZ, PE, LEED® AP
DIRECTOR OF STRUCTURAL AND GEOTECHNICAL SERVICES



EDUCATION / CERTIFICATION:

Brown University
B.S. Civil Engineering, 1994

New Jersey Professional Engineer
License No. 24GE04960500

New York Professional Engineer
License No. 077867

Leadership in Energy and Environmental Design,
Accredited Professional

FHWA-NHI-130055
Safety Inspection of In-Service Bridges
(Certified March 2019)

- Improvements to the Duhernal Lake Dam for Middlesex County
- Formal and Regular Inspections of the Plainsboro Pond Dam and the Regular and Formal Inspections of the Duhernal Lake Dam for Middlesex County
- Formal Inspection of the Apshawa Main and Auxiliary Dams for Passaic County
- Regular and Formal Inspections of the Deer Head Lake Dam, the Lake Barnegat Dam, the Parker Avenue Dam and the Bamber Lake Dam for Ocean County
- Regular and Formal Inspection of the Millhurst Pond Dam for Monmouth County
- Regular Inspection of the Old Mill Pond Dam for Wall Township
- Regular and Formal Inspections of the Iona Lake Dam and the Franklinville Lake Dam for Franklin Township

GENERAL DESCRIPTION OF EXPERIENCE:

Mr. Hernández is a dynamic, proactive and detail-oriented professional with over 29 years of experience and outstanding success in planning, managing and executing all aspects of structural and geotechnical infrastructure engineering projects specializing in the design, rehabilitation and inspection of steel, prestressed, precast and reinforced concrete and timber bridges, as well as steel, reinforced concrete and timber structures.

BRIDGE DESIGN EXPERIENCE:

- Replacement of the W. Century Road Bridge, the Magnolia Avenue Bridge, the Greenwood Avenue Bridge and the County Road Culvert for Bergen County
- Replacement of the North Clinton Avenue Bridge, the Jernee Mill Road Bridge, the Main Street Culvert, the River Road Culverts and the Pulaski Street Culvert for Middlesex County
- Reconstruction of Nine (9) Bridge and Culvert Structures on County Route 3, Bridge R-5 and the Deerfield Lane Footbridge for Monmouth County
- Replacement of the Raymond Avenue Bridge, the Netherwood Avenue Bridge, the Martine Minor Avenue Bridge, the Lower Road Minor Bridge and the Dill Avenue Bridge for Union County

BRIDGE INSPECTION EXPERIENCE:

- 2019 Routine Bridge Inspections of the Riverside-Delanco Bridge and Four Minor Bridges for the Burlington County Bridge Commission
- 2020 and 2022 In-Depth Bridge Inspections of Four Minor Bridges for the Burlington County Bridge Commission

DAM DESIGN AND INSPECTION EXPERIENCE:

- West Branch Reservoir Dam Improvements Project for Somerset County

STRUCTURAL AND GEOTECHNICAL DESIGN EXPERIENCE:

- Effluent Pumping Station, ACOE Stormwater and Biosolids Facility Pumping Stations, Main Plant and Biosolids Facility Flood Walls, and Upgrades to the Co-Generation Facility for the Joint Meeting of Essex and Union Counties
- Pile-supported Foundation for the Jackson Street Fire House and New Pumping Station for the Borough of Sayreville
- Carteret Waterfront Park and Recreation Pier for the Borough of Carteret
- ADA Accessible Seawall Project for the Township of Aberdeen
- Vehicle Canopy Projects for the Department of Public Works and for the Police Department in the Township of Piscataway
- Bayfront 1 Redevelopment - Phase 1A Surcharge Program and Support of Infrastructure Improvements for the Jersey City Redevelopment Agency and the Design of the Foundations for a New Pumping Station and a 72-inch Force Main for the Jersey City Municipal Utilities Authority
- Design of the New Sludge Cake Receiving Facility Building for the Northwest Bergen County Utilities Authority
- Structural and Emergency Repairs at the Wastewater Treatment Plant for the Township of Parsippany-Troy Hills
- Structural and Geotechnical Services for the Design and Permitting of the New Ecological Park for the Township of Piscataway
- Geotechnical Services for the Phase 1 Capital Improvements to the Middlesex College Master

SPECIAL STRUCTURAL CONSTRUCTION INSPECTIONS:

- Gilmore School Addition and Renovations, Union City, NJ
- Union City Board of Education 36th Street Parking Garage, Union City, NJ

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ALEJANDRA MAZIER

GEOTECHNICAL PROJECT ENGINEER



EDUCATION / CERTIFICATIONS:

National Autonomous University of Honduras
B.E. Civil Engineering 1997

- Qualified AutoCAD operator.
- Extensive experience in the usage of MATHCAD software

GENERAL DESCRIPTION OF EXPERIENCE:

Ms. Mazier has over 19 years of extensive design and field experience in the geotechnical engineering discipline. Her experience includes supervising subsurface explorations, conducting laboratory testing, performing engineering analyses and design, and monitoring foundation installations. Her experience includes geotechnical analyses, slope stability and settlement evaluations, development of foundation design parameters, assessment of subsurface conditions for ground improvement techniques such as; wick drains and surcharging, dynamic compaction and stone / concrete columns, braced / cantilevered excavation sheeting design, foundation design and preparation of geotechnical reports.

Prior to her relocation to the U.S.A., Ms. Mazier worked with INDESA, Honduras, C.A., an engineering firm that specializes in the design and construction of diverse projects. As project engineer, she was responsible for leading and supervising the construction process in the field. Her duties included: organizing and coordinating activities during the construction phases; directing personnel from the various building trades; construction estimating; approval of completed contract tasks, and preparation of field execution reports.

RELEVANT PROJECTS:

Atlantic City-Brigantine Connector, Atlantic City, NJ
Monitored the installation of 500 16-inch diameter high capacity steel pipe piles for the project's bridge abutments and piers.

Atlantic City Expressway Widening, Atlantic City, NJ
Supervised the subsurface explorations and laboratory-testing program. Monitored the installation of piles for the expansion of Bridge No. 28 and the roadway culvert over Jonathan's Thorofare.

ACUA/Jersey-Atlantic Wind Farm, Atlantic City, NJ
Supervised the subsurface explorations and laboratory testing program. Performed engineering analyses to evaluate a pile foundation system for five, 380 ft high 1.5 MW wind turbine towers and computed settlement analyses due to site grading. Member of the team responsible for monitoring the foundation installation and testing.

New Southbound GSP Driscoll Bridge, Sayreville, NJ
Member of the team responsible for monitoring the installation of approximately 300 high capacity 24-inch diameter CIP steel pipe piles for the project's pier foundations.

New Public Works Facility, Atlantic City, NJ
Conducted pile load tests on existing piles in order to assess capacity for support of additional live loads and assessed the use of wick drains to expedite consolidation of the access roads and police tow lot.

Oceanside II Residential Development, Atlantic City, NJ
Monitored subsurface exploration, developed subsurface profiles and evaluated laboratory results. Monitored wick drain installation and obtained readings from settlement plates and piezometers during the construction phase.

Ramp at Huron Avenue, Atlantic City, New Jersey
Provided pile installation monitoring and instrumentation data readings from inclinometers and extensometers during surcharge period.

OBMUA Crossroads Interceptor, Old Bridge Twp, NJ
Supervised the subsurface explorations and laboratory testing program, provided recommendations for trenchless applications for an interceptor comprising a total of approximately 9,500 linear feet of sewer alignment. Monitored installation during construction.

OBMUA Laurence Harbor Interceptor, Old Bridge Twp, NJ
Provided pile installation and PDA testing monitoring for approximately 480 - 50 to 60 ton capacity 12.75 inch diameter CIP steel pipe piles, supervised the excavation and installation of 2,680 ft of 30-inch diameter DIP sewer line, inspected the meter chamber reinforcing steel installation and assisted the project manager in various field/project management tasks.

Maersk Container Terminal Improvements, Port Elizabeth, NJ
Supervised the subsurface explorations and laboratory testing, performed geotechnical evaluations for new fills, pavement, and caisson design for new 150 feet high light poles. Monitored the installation of 48 inch diameter drilled piers extending to a depth of approximately 35 feet.

EXPERIENCE:

Engineering experience: 19 years

AUSTIN BAZUK
ASSOCIATE PROJECT MANAGER



EDUCATION / CERTIFICATION:

Susquehanna University
Selinsgrove, PA
Bachelor of Earth and Environmental Sciences, 2021

Rutgers University for Continuing Professional Education
Wetland Delineation Certificate, 2022

GENERAL DESCRIPTION OF EXPERIENCE:

Mr. Bazuk has experience in Environmental Regulatory Compliance with State and Federal regulations. His experience includes a wide variety of disciplines including those necessary to evaluate sites for feasibility from the standpoint of environmental regulations concerning freshwater wetlands, flood hazard areas, coastal wetlands, CAFRA, waterfront development, tidelands claims and stormwater management.

DETAILED BRIDGE/CULVERT EXPERIENCE:

Marlboro Township: Improvements to Harbor Road

Project entailed the preparation of flood hazard area and freshwater wetlands general permits for roadway improvements and the replacement of a culvert crossing a tributary of the Deep Run.

Monmouth County: Improvements to County Route 3

Project entailed the preparation of flood hazard area and freshwater wetland individual permits for reconstruction, widening, and realignment of several section of County Route 3.

Bergen County: County Road Culvert

Project entailed the preparation and submission of flood hazard area individual permit and a Freshwater wetlands general permit for the reconstruction of a culvert washed out by Hurricane Ida. The application submission was made to follow up an emergency permit submission.

DETAILED EXPERIENCE:

Union County: Groundwork Elizabeth Stream Enhancement

Project involved the preparation and submission of freshwater wetlands and flood hazard area permits, as well as coordination with the Historic Preservation Office for the submission of an Application for Project Authorization.

Brick Township: Mallard Point Park Improvements

Project involved the preparation and submission of CAFRA, freshwater wetland, flood hazard area, and Army Corps of Engineers permits for beachfront park improvements.

Holmdel Township: TABS Committee Bike Route

Project involved an extensive wetland delineation to determine constraints for the proposed bike route.

Lakewood Township: Sanitary Sewer Extension

Project entailed the preparation of a CAFRA permit for an extensive linear MUA improvement project to extend the limits of the sanitary sewer line under major roads.

Middlesex County: Improvements to CR 535 Washington Road

Project entailed the preparation of a flood hazard area individual permit for the improvements to the intersection of CR 535 Washington Road and CR 675 Jernee Mill Road, MacArthur Avenue and Furman Avenue.

Borough of Red Bank: Marine Park Parking Lot

Project entailed the preparation of a CAFRA individual permit for the construction of a public parking lot for Marine Park, located along the Navesink River which is a Category 1 water.

North Brunswick Township: Improvements to Evelyn Avenue

Project entailed the preparation of a freshwater wetlands general permit for roadway and drainage improvements along Evelyn Avenue.

VARIOUS ENGINEERING PROJECT TASKS

- Perform and review environmental regulations and impacts
- Conduct field investigations including wetland delineations and soil sampling
- Prepare environmental permit application to the NJDEP and US ARMY Corps of Engineers
- Coordinate assigned project elements
- Review and report on site plan/ subdivision applications
- Technical report writing and review

EXPERIENCE:

2024 - Present	CME Associates Associates Project Manager
2021 - 2023	CME Associates Project Leader

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DREW G. LEWIS, P.E., P.P.
SENIOR PROFESSIONAL ENGINEER, ENVIRONMENTAL

EDUCATION / CERTIFICATIONS:

Stevens Institute of Technology, Hoboken, NJ
Bachelor of Engineering in Civil Engineering
May 2011

PROFESSIONAL REGISTRATIONS:

- Fundamentals of Engineering Exam (EIT):
effective January 17th, 2014
- Professional Engineering Exam (PE): Application
Approved for April 2018 Exam
- OSHA 40-Hour HAZWOPER Supervisor
Training/8-Hour Refresher/ 10-Hour OSHA
Construction Training:
- New York State Asbestos Inspector Initial/
Refresher Training: March 2016/March 2017
- NYSDEC Erosion and Sediment Control Training:
October 2015

WORK EXPERIENCE:

April 2015 – February 2018

AKRF, Incorporated-
Civil/Environmental Engineer, Hazardous Materials
Department

November 2012 – April 2015

TRC Environmental Corporation
Engineer II, New Providence Remediation Office

September 2011 – June 2012

Florida Department of Transportation (FDOT)
Engineering Technician I, Tampa Construction
Office

September 2010 – May 2011

Hazen and Sawyer, P.C./Stevens Civil Engineering
Department
Lead Project Engineer, Madbury Water Treatment
Plant (Senior Design Project)

SUMMARY OF EXPERIENCE:

Woodhaven Boulevard and Metropolitan Avenue
Site October, December 2017 - NYSDEC
Volunteer Cleanup Site/ Remedial Optimization
Work Plan [Confidential Client] – Rego Park,
Queens, NY

- Conducted calculations for frictional head losses
and system blower and component sizing in
expanded sections of an existing soil vapor
extraction system.
- Developed preliminary sketches for process and
instrumentation diagrams and site system
layouts.
- Produced initial drafts of system bid
specifications and procurement forms.
- Developed data tables and graphs from field pilot
testing illustrating radii of influence during
phases of step testing.

Fulton Street and Atlantic Avenue Site, Nov – Dec
2017 - NYSDEC Brownfield Cleanup Program/
Supplemental Remedial Investigation [Confidential
Client] – E. New York, Brooklyn, NY

- Lead a field investigation to delineate extent of
chlorinated solvent and petroleum contamination
in soil.
- Installed soil borings, classified soil cores, and
collected samples to vertically and horizontally
delineate contaminants.
- Developed, gauged, and sampled nested
groundwater wells for targeted compounds,
including emerging contaminants.

Fulton Street and Troy Avenue Site, Oct- Nov 2017
- Phase II Environmental Site Assessment / Multi-
Use Redevelopment [Confidential Client] –
Bedford-Stuyvesant, Brooklyn, NY

- Installed soil borings and soil vapor sampling
points across the site, and assessed site
conditions.
- Authored a Phase II Environmental Site
Assessment report with corresponding figures,
data tables, and field forms.



DREW G. LEWIS, P.E., P.P.
SENIOR PROFESSIONAL ENGINEER, ENVIRONMENTAL

Fulton Street and Vanderbilt Avenue Site, Oct- Nov 2017, NYCOER Remedial Action/ Multi-Use Redevelopment [Confidential Client] – Fort Greene, Brooklyn, NY

- Managed disposal of approximately 52,000 tons of petroleum-contaminated soil and hazardous waste at off-site receiving facilities as agent for the generator, including soil manifesting and material screening during excavation.
- Collected excavation endpoint samples to comply with the NYCOER-approved remedial plan. Collection of soil endpoint sampling was conducted to confirm the acceptable performance of the selected remedy (excavation and off-site disposal).
- Conducted engineering assessments of waterproofing and vapor barrier, including the use of engineer-approved materials, identification of potential infiltration points, and secure tie-ins with the building foundation.
- Executed a Community Air Monitoring Plan, including the collection and interpretation of volatile vapor and airborne particulate data with roving and fixed instrumentation.
- Developed a Remedial Action Report to report on remediation activities undertaken during construction. This included interpreting laboratory data collected throughout the remedial program, the creation of engineering drawings to detail construction of the engineered composite cap, and the evaluation and final acceptance of foundation contractor stamped as-built drawings of vapor barrier and waterproofing installation. Report deliverables also included details of underground and aboveground storage tanks removed during excavation, associated tank and spill closure documentation, fullyexecuted waste manifests and facility waste totals, excavation extents and depths, and describing and quantifying delineated hazardous waste areas removed from the site.

- Developed a Site Management Plan for future construction and excavation activities on the site. This included the development of an inspection plan and schedule for engineering controls on the site, including assessments for the condition of the composite cover and vapor barrier/waterproofing, as well as guidelines for future remedial or construction activities affecting the residual soil management zone.

East Gun Hill Road and Putnam Place Site, Jan - Feb 2017, Phase II Environmental Site Assessment/Commercial Redevelopment [Montefiore Medical Center] – Norwood, Bronx, NY

- Conducted sampling of soil and sub-slab soil gas in basement and slab-on-grade portions of existing buildings.
- Assessed condition of existing building, including vapor entry points, foundation damage, and present site use.
- Collected 8-hour indoor air samples and one ambient air sample with Summa canisters to evaluate indoor air quality.
- Conducted interviews with site staff to establish building use, on-site chemical use, and complete a chemical inventory.
- Authored a Phase II Environmental Site Assessment and Indoor Air Quality Assessment Report.

9 DeKalb Avenue Site, Dec 2016, Phase I Environmental Site Assessment/ Commercial Redevelopment – Downtown Brooklyn, NY

- Conducted a site visit to identify document conditions contributing to or constituting on-property RECs.
- Conducted site interviews with the development team and building engineer.
- Supervised a walk-through with two contractors bidding for removal of a 15,000-gallon
- Inspected regulatory records
- Completed a Phase I Environmental Site Assessment report to summarize findings.

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JORDYN STYCZYNSKI, EIT

PROJECT ENGINEER, ENVIRONMENTAL

EDUCATION / CERTIFICATIONS:

B.E., Environmental Engineering
University of Connecticut, School of Engineering,
Storrs, CT (2017)

Engineer-In-Training, NJ, 2022 / Lic. # EIT-04494

COURSES / TRAINING:

OSHA 40-hour HAZWOPER (29 CFR 1910.120)
OSHA 8-hour HAZWOPER Refresher (annually)

PUBLICATIONS:

"Energy-positive wastewater treatment and desalination in an integrated microbial desalination cell (MDC)-microbial electrolysis cell (MEC)" Journal of Power Sources. Jan. 29, 2017 1-10.

GENERAL QUALIFICATIONS:

Ms. Styczynski has been working at CME Associates as an Environmental Engineer since June 2017. Throughout her 5+ years experience, she has gained extensive knowledge of solid waste management services through designing various landfill system components, including but not limited to, new landfill cell constructions, landfill final closures and cappings, landfill vertical and/or lateral expansions, leachate collection & conveyance systems, and stormwater management systems, all while maintaining compliance with NJDEP Solid Waste Regulations, Best Management Practices Manual, and SESC Standards. Ms. Styczynski's experience primarily involves working with public agencies throughout the planning and design, bidding, and construction phases of projects related to solid waste facilities. She is proficient in AutoCAD Civil 3D, as well as various simulation models such as Autodesk Storm and Sanitary Analysis, Haestad PondPack, HELP, and HEC-RAS, required for landfill design.

SUMMARY OF EXPERIENCE:

CME TITLE/POSITIONS:

Project Engineer III (March 2023 to Present)
Project Engineer IV (Jan. 2021 to Mar. 2023)
Design Engineer (Jun. 2017 to Jan. 2021)
Technical Assistant (Summer 2016/Winter 2017)

Ms. Styczynski's experience at CME includes but is not limited to maintaining compliance with the NJDEP Solid Waste Regulations for various landfill sites, preparation of Solid Waste Facility Permit Renewal applications, including minor and/or major modifications, preparation of design drawings and details, preparation of bid documents and technical specifications, and construction administration. Key experience is highlighted, as follows:

KEY PROJECTS

Middlesex County Landfill Solid Waste Facility Permit Renewal and Major Modification for Vertical Expansion, Middlesex County, NJ – May 2022

- ❖ Prepared the Solid Waste Facility (SWF) Permit Renewal and Major Modification Application, including the SWF Application Form, an assessment of MCUA's current practices to ensure compliance with the existing SWF Permit, a compilation of the landfill's ownership documents, and various site plans identifying environmental constraints and existing site conditions.
- ❖ Reviewed and updated the landfill's facility-wide Operations and Maintenance (O&M) Manual to be consistent with the ongoing landfilling operations.
- ❖ Reviewed and updated the landfill's Environmental Health Impact Statement (EHIS) to include an evaluation of the potential impacts of the proposed landfill vertical expansion.

Gloucester County Solid Waste Complex Solid Waste Facility Permit Major Modification for Phase IX Lateral Expansion, Gloucester County, NJ – August 2019

- ❖ Designed the final stormwater management system by utilizing stormwater simulation models to analyze pre-developed and post-development scenarios for water quality and quantity design criteria of proposed swales, downchutes, detention basins, and other stormwater structures.
- ❖ Prepared, ran and evaluated leachate generation simulation model, HELP, to determine the overall leachate conveyance system design criteria.
- ❖ Designed and prepared proposed grading plans for six (6) landfill cells, including cell subgrade, primary and secondary lining systems, pump stations, primary and secondary leachate collection systems,

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SALIH KOKOL

SENIOR SCIENTIST



EDUCATION / CERTIFICATIONS:

B.A., Geology, City University of New York, Queens College, NYC, NY, 1983
M.A. Candidate., Hydrogeology and Geo-Chemistry, City University of New York, Brooklyn College, New York, NY

CERTIFICATIONS AND TRAINING:

- Licensed Subsurface Evaluator, #0011795, State of New Jersey
- Licensed N-2 Industrial Wastewater Operator, #0005765, State of New Jersey
- Understanding Site Remediation in New Jersey – NJDEP and LSRPA collaboration
- OSHA Rule 1910.120 Training: 40-Hour Health & Safety Course
- Professional Development Training: Analysis and Design of Aquifer Tests
- Operation and Maintenance of Wastewater Collection Systems
- New Jersey Department of Environmental Protection and Energy Underground Storage Tank Rules and Regulation Certification Course
- Delaware Department of Natural Resources and Environmental Control Underground Storage Tank Rules and Regulation Certification Course
- USACE Training for Contractor Quality Management for Contractors

MEMBERSHIP AND AFFILIATIONS:

- Geologic Society of America
- National Groundwater Association

GENERAL QUALIFICATIONS:

Mr. Kokol has more than twenty-five (25) years of professional experience in the environmental consulting industry conducting investigations and remedial actions. Mr. Kokol's expertise includes investigating underground storage tanks, subsurface releases of LNAPL and DNAPL compounds, performing environmental

site assessments, site remediation, geotechnical investigations, site investigations, remedial investigations, Phase I and Phase II investigations, and maintaining regulatory interface. He has extensive experience conducting soil, groundwater, surface water, and vapor intrusion investigations, receptor evaluations, and remedial projects at military facilities, landfills, refineries, industrial, commercial, and residential properties contaminated by petroleum hydrocarbons, MGP, chlorinated solvents, heavy metals, and PCBs.

Mr. Kokol has vast expertise in evaluating site conditions, assessing risks, and performing soil, groundwater, surface water, sediment, soil-gas, and indoor air sampling. His remedial expertise includes installation, operation and maintenance of SVE/Air Sparge Systems, Pump & Treat, Air stripping, and SVE w/Catalytic oxidizer, P&T w/chemical treatment and GAC filtration systems, steam injection, bio-remediation, chemical oxidation injections, groundwater and soil sampling, installation of monitoring and recovery wells, soil borings, and underground storage tank (UST) and soil excavation. Mr. Kokol is highly proficient conducting aquifer tests to evaluate hydrogeologic parameters and modeling groundwater flow. He has extensive experience in data management and various mapping and logging software to assess site-specific and regional geologic, hydrogeologic, and environmental conditions. Mr. Kokol maintains a working understanding of current NJDEP regulations including N.J.A.C. 7:26E (TRSR), N.J.A.C. 7:26C (ARRCS), N.J.A.C. 7:26B (ISRA), and N.J.A.C. 7:14B (UST) regulations as part of the licensing process.

SALIH KOKOL SENIOR SCIENTIST



SUMMARY OF EXPERIENCE:

Remedial Investigations:

- Investigated service stations, landfills, pipelines, terminals, Superfund sites, and government and industrial facilities and private residences.
- Designed and implemented more than 100 Remedial Investigation/Remedial Action Workplans in California, Delaware, Maryland, New Jersey, New York, Pennsylvania and Virginia.
- Performed and supervised subsurface investigations, including environmental and geotechnical test borings, installation of ground water monitoring wells, and collection of soil and ground water samples for contaminant plume delineation.

Underground Storage Tank Investigation, Removal and Closure:

- Directed removal and testing of more than 20 underground storage tanks (USTs) and replacement of three oil/water separators at government facility in Delaware. Procured materials, supervised site, and ensured regulatory compliance. Project was completed two weeks ahead of schedule and under original budget.
- Investigated multiple UST leaks and installed numerous monitoring and recovery wells to delineate free-phase and soluble-phase contaminants along and across a major highway in New Jersey. Conducted aquifer testing and SVE testing for a proposed treatment and SVE system. Oversaw installation and operation of a pump-and-treat system, air stripping, and SVE (with catalytic oxidizer) system operation. All work was completed in compliance with NJDEP regulations.
- Assessed/investigated multiple UST leaks at various gasoline stations in Long Island and upstate New York. Delineated contaminant plumes across city streets; proposed system design for soluble-phase contamination; and conducted feasibility studies and aquifer tests for product recovery, ground water

pump-and-treat, and SVE systems. Operated and evaluated numerous product recovery and ground water remediation systems (pump-and-treat, air stripping, and carbon filter), and complied with NYSDEC regulations.

Soil and Ground Water Remediation:

- Evaluated, selected appropriate treatment technologies, and managed over 100 remediation projects involving the operation and maintenance (O&M) of remedial systems – including startups, routine site visits, compliance sampling and reporting, carbon change-outs, equipment maintenance, and troubleshooting.
- Prepared O&M Manuals and “How To” documents.
- Commissioned more than 25 treatment plants.
- Implemented the O&M of an extraction system designed to establish hydraulic control within a landfill in New Jersey, while maintaining regulated discharge criteria.
- Provided general management, risk assessment, and feasibility services for proposed future remediation of subsurface petroleum release from a major pipeline in New Jersey. Coordinated and oversaw street and sidewalk drilling, aquifer testing, and ground water quality determination in immediate area of concern. Based on the findings, an ORC® injection grid was established and activity was conducted. Post-application testing indicated four-fold reduction of the contaminant concentrations...with resultant cost savings for client.
- Involved in the dewatering of a multi-layered aquifer in New Jersey to facilitate remediation of radioactive wastes. Participated in well design and pump test design. Conducted multiple short-term pump tests, and evaluated the results to determine effective dewatering strategy and final dewatering implementation. Set up computerized data collection network and trained staff on monitoring, troubleshooting, and data interpretation. Coordinated efforts

SALIH KOKOL SENIOR SCIENTIST



between regulatory agencies and client for permit-required ground water sampling events, and conducted these utilizing various sampling techniques as necessitated by site conditions. Cleanup and the simultaneous dewatering efforts were successfully completed on schedule.

- Oversaw, evaluated, and implemented O&M activities for fuel oil skimming, ground water pump-and-treat, and steam injection remedial methodologies at a Virginia site.
- Directed well installation, system O&M, soil and ground water sampling, system and hydrogeological evaluation, and procurement of various equipment for ground water remediation and product recovery at multi-contaminant site in Virginia. Site cleanup levels exceeded expectations and the case was approved for site closure.

Remedial System Design:

- Participated in conceptual design of numerous remedial system design projects, including soil excavation, dewatering, soil and geomembrane caps, soil vapor extraction, air sparging, free product recovery, and ground water extraction and treatment systems.
- Completed special geotechnical soil boring/well installation programs for barrier/slurry walls, deep excavations and landfill design.
- Directed emergency response to recover gasoline discharged into sanitary sewer system at a New Jersey gasoline station. Completed impact study and site assessment, including contaminant plume delineation across a major highway. Performed aquifer and SVE testing. Designed a treatment system that combined pump-and-treat and SVE (with catalytic oxidizer) technologies. All work was completed in compliance with New Jersey Department of Environmental Protection (NJDEP) regulations.

- Directed remediation of jet fuel contamination at a New York airport to obtain a risk-based closure according to New York State Department of Environmental Conservation (NYSDEC) criteria. Recovery and treatment technologies used were dual phase vacuum extraction, oil/water separation, low-profile air stripping, liquid-phase carbon absorption, catalytic oxidation of exhaust gases, and vapor-phase carbon treatment. Conducted aquifer testing and analyzed the test data in aiding system design. Performed O&M for product recovery. Successful operation of the system removed liquid phase product to below the NYSDEC required levels across the site.

Construction Management:

- Served as Construction Manager at a New York utility site that involved installation of test pits; delineation of deep and shallow MGP contamination, conducting aquifer tests to determine hydraulic characteristics of the subsurface; and disposal of generated solid and liquid wastes.
- Served as Construction Manager at 36-acre site in New Jersey; planned, scheduled and directed multiple drilling and excavation crews; maintained communication between the client and regulatory agencies. Maintained cost tracking and monthly invoicing functions. The investigation remained on schedule, met all target dates, and was completed within budget.
- Served as Construction Manager at 31-acre site in New York involving demolition of multiple buildings, disposal of generated debris and steel. Project also involved continuous air monitoring environmental, geotechnical and geochemical drilling, collection and analyses of samples to determine site characteristics and delineate LNAPL and PCBs.

JOSE R. BUSTAMANTE SENIOR GEOLOGIST



EDUCATION / CERTIFICATION:

B.S. Geology, Mapua Institute of Technology,
Manila, Philippines

- Geologist (Philippines)
- OSHA 40-hour and 8 -hour supervisor

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- Offshore Prospecting (Geology and Geophysics) for 8 months (Tokyo, Japan)
 - Geological and Geophysical Training (on the job) at Occidental Petroleum (OXY)

GENERAL DESCRIPTION OF EXPERIENCE:

- Perform oversight of environmental drilling and groundwater sampling for projects of government and private companies.

- Perform Quality Assurance inspection at the Linden Landfill Closure, Linden, New Jersey.

- Prepared field reports for NJDEP.

Key Tech, Keyport, New Jersey

- Submitted on time laboratory results of physical tests of soil and aggregate samples for moisture-density, sieve analysis, permeability, liquid, plastic limit and organic content.

- Oversaw soil excavation and drilling, and conducted soil sampling.

- Conducted in-field testing of soils and asphalt pavement for compaction.

- Inspected rebar frame, forms, tested concrete and fabricated concrete cylinders.

- Prepared reports.

URS, Cranford, New Jersey

- Participated in the assessment, investigation and remediation projects at the J.F. Kennedy International Airport, New York from 2000 to 2003.

- Oversaw auger drilling, geo-probe boring, hydro-punch groundwater sampling, well installation and development.

- Assisted on timely completion of quarterly groundwater sampling using dedicated in well systems, bailers, low-flow purging and documenting of about 400 monitoring and, extraction wells.

- Oversaw the operation and maintenance of soil vapor extraction (SVE) system.

- Conducted enhanced bioremediation treatment of contaminated soils.

- Conducted soil and groundwater sampling at a pharmaceutical facilities in central NJ.

- Assisted in groundwater sampling at an abandoned chemical facility and submitted reports.

EXPERIENCE:

2005 - Present	CME ASSOCIATES Geologist
2004 - 2005	Key Tech Technician
2001 - 2003	URS Geologist
1998 - 2001	Dames and Moore Geologist

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RAND PIANIN, PE

ASSOCIATE PROFESSIONAL ENGINEER



EDUCATION / CERTIFICATIONS:

Rutgers University, School of Engineering, B.S. in
Bioenvironmental Engineering, 2013

Professional Engineer

License No. 24GE06094700

OSHA 40-hour HAZWOPER (29 CFR 1910.120)

Training Certification

OSHA 8-hour HAZWOPER Refresher (completed
annually)

GENERAL QUALIFICATIONS:

Mr. Pianin has over three (3) years of professional experience in the environmental consulting industry conducting investigations and remedial actions to reduce environmental liabilities in a cost effective, technically sound manner. Mr. Pianin has various experience in investigational and remedial design and reporting activities. His expertise includes preliminary assessments, remedial investigations, remedial actions, regulatory knowledge, and environmental related construction projects. Mr. Pianin has experience conducting soil, groundwater, surface water, sediment, and vapor intrusion investigations, receptor evaluations, and remedial projects at industrial, commercial, residential, agricultural, and open space properties contaminated by petroleum hydrocarbons, chlorinated solvents, heavy metals, pesticides, and PCBs.

Mr. Pianin is proficient at assessing risks, and performing soil, groundwater, and sediment sampling. His remedial expertise includes in situ chemical oxidation and reduction, and underground storage tank (UST) and soil excavation. Mr. Pianin is proficient at modeling contaminant mass transport through air, soil, and groundwater. He has extensive experience in data management and Computer Aided Design software to assess site-specific and regional geologic, hydrogeologic, and environmental conditions. Mr. Pianin maintains a working understanding of current NJDEP regulations.

SUMMARY OF EXPERIENCE:

LSRP Program Experience

- Under supervision of Project Manager/Engineer, performed environmental and remedial investigations and remedial actions for industrial, commercial, agricultural, and open space properties throughout New Jersey, Pennsylvania, and New York. Prepared workplans, reports, drawings, and forms in support of issuance of restricted and unrestricted Response Action Outcomes (RAOs).

Brownfields Redevelopment/Site Remediation

- Under supervision of Project Manager/Engineer, conducted environmental investigations and remedial actions at contaminated commercial and industrial sites throughout New Jersey including UST excavations and sampling of soil, groundwater, and sediment.

Environmental Assessments and Investigations

- Conducted Preliminary Assessments, Phase I ESAs, Site and Remedial Investigations, UST Investigations, and Remediation for industrial, commercial, agricultural, residential properties throughout New Jersey.

Land Use Evaluations

- Prepared drawings for regulatory wetland boundary verification, general permits, and individual permits.
- Conducted landfill gas monitoring, and assisted in preparation of quarterly reports for several 'legacy' landfills in New Jersey.

Air Quality

- Prepared permit and renewal applications for Soil-Vapor Extraction Equipment.

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JACQUELYN FAGAN, CRP/SRMP

SENIOR SCIENTIST



EDUCATION / CERTIFICATIONS:

M.S Environmental Science and Policy
Johns Hopkins University, Baltimore, MD (2022)

B.S. Environmental Science &
Community & Regional Planning (dual-major)
Spanish Minor; Environmental Sustainability Cert
Temple University, Philadelphia, PA (2012)

N.J. Certified Recycling Professional &
Sustainable Resource Mgmt. Professional
Rutgers NJAES OCPE (2021)

MEMBERSHIPS:

Licensed Site Remediation Professional Association
(LSRPA)

Solid Waste Association of North America (SWANA)

Association of New Jersey Recyclers (ANJR)

NJ Chapter - Society of Women Environmental
Professionals (SWEP)

COURSES / TRAINING:

OSHA 40-hour HAZWOPER (29 CFR 1910.120)

OSHA 8-hour HAZWOPER Refresher (annually)

NJDEP Regulatory Training in Underground Storage Tanks
(Dec 2014)

ArcGIS: Introduction (May 2015)

GIS Data Submittal and Application of NJ-GeoWeb for the
LSRP (Sep 2016)

ArcGIS: Editing & Data Development (Dec 2016)

NJDEP Training: DataMiner, CDN, and ISRA GIN Online
Services (Mar 2018)

Due Diligence in N.J. (Apr 2018)

Ecological Risk Assessment (Mar 2019)

ITRC 3 Part Series - Managing LNAPL Sites (May 2019)

NJ Wetlands Management for LSRPs (Sep 2019)

SRWMP Remediation Funding Source and Financial
Assurance Training (Dec 2019)

LSRP Update for Contaminants of Emerging Concern:
PFAS (June 2020)

Remedial Action Permit Applications and RAOs (Jul 2020)

Detailed Training on Updates to the Case Inventory
Document (Feb 2021)

Solving Environmental Problems for Municipalities (Feb
2021)

GENERAL QUALIFICATIONS:

Ms. Fagan is a mid-level Environmental Scientist with a total of 10 years of experience in the environmental industry, including 8+ years in environmental engineering consulting at CME Associates. Over the course of her career, Jacquelyn has worked on projects ranging from small residential improvements to large infrastructure and development projects. Her experience includes working primarily with public agencies, as well as private sector developers, in the bidding, planning and design, and execution phases of projects of various sizes and complexities. Jacquelyn has a diverse skillset, including broad knowledge of environmental policies and regulations that she regularly applies for regulatory compliance monitoring, reporting, and permitting projects. She is adept in GIS analysis, preparing and managing budgets for projects, managing projects including coordination with subcontractors, preparation of proposals and responses to RFQs/RFPs, and research, among other skillsets.

SUMMARY OF EXPERIENCE:

Ms. Fagan's experience at CME includes but is not limited to maintaining compliance with the NJDEP Licensed Site Remediation Professional (LSRP) requirements for many contaminated sites and/or sites under investigation, preparation of reports pertaining to various phases of environmental investigations, analyzing and preparing GIS Data for NJDEP submittals and other environmental investigations, preparation of HDSRF grant and NJIB loan applications, preparation of proposals and project budgets, air permitting, and land use permitting. Ms. Fagan has also performed field work and analyzed data in accordance with the NJDEP Field Sampling Procedures Manual and other NJDEP guidance documents. Key experience is highlighted, as follows:

KEY PROJECTS

- ❖ Prepare preliminary food waste market study utilizing GIS and Facilitate Procurement Process (Development of RFQ/RFP) for a Public Private Partnership (P3) for Development of a Food Waste Recycling Facility for County Utilities Authority Client in response to NJ Food Waste Law Effective 10/2021. Project also included consideration of the new NJ Environmental Justice Law and participation in NJDEP stakeholder meetings to understand implications on project.

- ❖ Prepare "Technical Review of the Leachate

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JACQUELYN FAGAN, CRP/SRMP SENIOR SCIENTIST



Reintroduction to Sanitary Sewer Plan" in Connection with a Closed Landfill/Former Superfund Site.

- ❖ Prepare "Review of the Existing Water Supply and Treatment Facilities" and associated GIS Analysis to evaluate extent of contamination from Superfund Site and PFOAs emerging contaminants in Borough's water supply and present several water treatment alternatives and costs.
- ❖ Prepare NEPA Environmental Assessment for Carteret Ferry Terminal
- ❖ Manage Submission of 3 Remedial Action Reports, Soil and Groundwater Remedial Action Permits, and Response Action Outcomes for the Former South River Metals Products Redevelopment Site in Aberdeen, NJ which was subdivided into 2 residential development parcels and 1 conservation parcel. The former industrial site had a total of 48 mixed media Areas of Concern (AOCs). Successful submission included extensive administrative coordination with the NJDEP.

ENVIRONMENTAL PERMITTING & COMPLIANCE

Ms. Fagan has prepared various types of NJDEP environmental permits for a myriad of diverse projects and sites, including Air Permitting & Air Permit Compliance Reporting, Water Allocation Permitting, and Land Use Permitting.

Air Permitting & Compliance

- 2021 Monmouth County Air Permitting - Maintained portfolio of various sites and prepared permit renewals
- 2020 and 2021 Burlington County Resource Recovery Complex - Prepared Semi-Annual NSPS Subpart XXX Reports
- 2015-2021 Union County On-Call Environmental Services – Air Permit Compliance for County Courthouse Boilers and various new General Air Permits and Renewals for County facilities
- Various Exxon Gas Stations – General Air Permits for Fuel Dispensing USTs.

Land Use Permitting

- FWW GP-2 for Pond Management Projects at 2 Union County Park Ponds
- GWW GP-1 for Mosquito Control Activities at Various Union County Locations
- FHA GP for Restoration Activities at Trotters Stream, Rizzuto Park, Union County

- CAFRA GP-2 for Beach Supplementation Activities at Belford Beach, Monmouth County

Water Allocation Permitting GIS Analysis

- Major Modification to Marlboro Township Water Utility Division WAP for 7 wells
- WAP Major Modification for the Duhernal Water System in Sayreville
- WAP Application for proposed municipal supply Well No. 4 for Berkeley Township Municipal Utilities Authority
- WAP Modification to request increase in the pump capacity of existing public community supply Well No. 4 in Borough of Spotswood

PRELIMINARY ASSESSMENTS / PHASE I ESAs

Ms. Fagan conducts site visits, prepares and conducts OPRA requests and reviews records, assesses potential environmental concerns, and prepares final reports for sites, including Green Acres sites and sites requiring environmental assessments as part of due diligence requirements.

- 9 Public Parks in the Township of Middletown
- Manalapan Recreation Center/ Dreyer Farm Park
- Bayview Avenue Waterfront Park, Pleasantville
- Morris Canal Greenway, Jersey City
- Historic Smithville Park, Burlington County

FUNDING AND GRANT EXPERIENCE

Ms. Fagan prepares Hazardous Discharge Site Remediation Fund (HDSRF) grant applications for public entities performing environmental investigations and remediation. Ms. Fagan also prepared NJ Infrastructure Bank (NJIB) loan applications for various landfill improvement projects.

- HDSRF Application for Remediation at South River Firehouse Redevelopment Project
- HDSRF Application for Bridgeton "Former Tin Can" Site and Former Landfill.
- NJIB Loan Applications for landfill expansion projects including new Cells #13, 14, 15, and 16 at the Gloucester County Landfill
- NJIB Loan Application for Various Landfill Improvements at the Cumberland County Landfill

MARKETING

Ms. Fagan prepares qualifications packages budgets in response to public RFQs/RFPs, project-specific proposals, and project budgets for various kinds of environmental consulting work, including solid waste engineering projects, environmental assessment and remediation projects, Brownfield redevelopment projects, etc.

ASHLEY CASTILLO

PROJECT ENGINEER, ENVIRONMENTAL



EDUCATION / CERTIFICATIONS:

Stevens Institute of Technology
B.E., Environmental Engineering; 2015

OSHA 40-hour HAZWOPER (29 CFR 1910.120) Training Certification
DOT Hazardous Material (49 CFR 172.704) Training Certification

GENERAL QUALIFICATIONS:

Ms. Castillo has been working at CME Associates as an Environmental Engineer since June 2015. Her experience includes field work in compliance with NJDEP Field Sampling Procedures Manual, data analysis, including landfill groundwater and stormwater monitoring program statistical analysis, Data Quality Assessments, and Data Usability Evaluations, and preparation of monthly engineer progress reports and several reports pertaining to landfill monitoring, design, and construction. She has processed numerous applications for soil/fill materials disposal, and is responsible for reviewing analytical data for facility acceptance specific to Gloucester County Solid Waste Complex, NL Industries Landfill, and Overpeck Park Landfill. As laboratory manager, she has maintained compliance/calibration records and performed adequate performance testing for the renewal of CME's laboratory and environmental measures certification. Ms. Castillo has experience with ChemStat and Sanitas statistical analysis software programs, as well as AutoCAD.

PREVIOUS EXPERIENCE:

EAI, Jersey City, NJ

Summer 2013

Environmental Engineering Intern

- Created submittals for various public school construction sites (mostly Liquid Boot vapor intrusion, sub-slab depressurization systems, waterproofing systems, underground storage tank removal, etc.)
- Drew up structural, architectural and shop drawing in AutoCAD 2013
- Co-author with President Robert Carvalho for article on "Vapor Intrusion in New Jersey" published in Commerce magazine (August-Sept 2013)

Solar Decathlon 2015, Stevens Institute of Technology,

March 2014-August 2014

Undergraduate Team Member

- Research, brainstormed and designed Steven's new house concept for the competition
- Responsible for Revit files on interior space, kitchen, bath, living area, dining room, etc.

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KATRINA BRODECKI, EIT ENGINEER, ENVIRONMENTAL

EDUCATION / CERTIFICATIONS:

Stevens Institute of Technology
M.S., Sustainability Management; 2019
Graduate Certificate, Env. Management; 2019
B.E., Environmental Engineering; 2019

Engineer-In-Training, NJ, Lic. # EIT-04156

COURSES / TRAINING:

OSHA 40-hour HAZWOPER (29 CFR 1910.120)
OSHA 8-hour HAZWOPER Refresher (annually)
OSHA 10-hour Construction Safety and Health

GENERAL QUALIFICATIONS:

Ms. Brodecki has been working at CME Associates as an Environmental Engineer since June 2019. Her experience includes site remediation and reporting work in compliance with NJDEP regulations, including Preliminary Assessments, Phase I ESAs, Site and Remedial Investigations, Receptor Evaluations, UST Investigations, and remediation for government, commercial, agricultural, and residential properties throughout New Jersey. She has compiled proposal packages for municipalities, counties and various governmental agencies, as well as worked with several solid waste facilities in New Jersey. Ms. Brodecki has experience working with AutoCAD Civil 3D.

SUMMARY OF EXPERIENCE:

Site Remediation – Municipal/County Clients

- Prepared municipal and county environmental site assessments, including Phase I ESAs, and Preliminary Assessments to support grant funding for improvements, acquisition of properties for open space, and to advance investigation/remediation of the subject property.
- Prepared remedial designs contract documents including construction drawings, project schedules, and budgets for various remedial action programs, including in-situ remediations and excavation and off-site disposal.
- Conducted equipment procurement; project coordination; documentation and inspection; and coordination with subcontractors.
- Provided engineering services during remediation projects including review of contractor submittals, contractor RFIs, issuance

of RFI responses, and construction quality assurance. Performed on-site construction inspection and contract administration on remedial construction projects.

- Performed field oversight for multiple remedial phase projects.
- Prepared multiple Preliminary Assessments, Site Investigation Reports, Remedial Investigation Reports, Remedial Action Work Plans, Remedial Action Reports, and Remedial Action Permit Applications to the NJDEP.
- Conducted remedial alternatives analysis and prepared feasibility and business case analyses of various remedial technologies.
- Prepared biennial certifications for soil and groundwater, including conducting site inspections, to evaluate the protectiveness of remedies.
- Prepared numerous NJDEP forms and notifications including Public Notification, Receptor Evaluations, Potable Well Surveys, Classification Exception Area / Well Restriction Area Applications, Deed Notices, and Termination of Deed Notices.

Landfill Engineering Experience

- Prepared landfill closure and post-closure care plans for solid waste facilities in New Jersey, including biennial updates.
- Provided engineering services during landfill cell construction and landfill improvement projects including review of contractor submittals and construction quality assurance. Performed on-site construction inspection and contract administration.
- Prepared landfill disruption permit application for site investigation of a closed landfill site.
- Prepared a Freshwater Wetlands Statewide General Permit 5 Application for a county landfill.

Litigation Support

- Assisted in preparation of expert report and provided technical support for litigation concerning the landfill slope failure and fugitive gas emissions from the toe drain related to the design and construction of the Final Cover of Cells 1A and 1B at the Gloucester County Solid Waste Complex.
- Assisted in preparation of expert report and provided technical support related to the potential impact of the State's taking on the solid waste facility operations of a transfer station/material recovery facility.

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PRALENDRA SINGH, EIT GEOTECHNICAL ENGINEER



EDUCATION / CERTIFICATIONS:

Master Degree of Civil Engineering, Southern Illinois University Carbondale, 2015, Geotechnical Major

Bachelor Degree of Civil Engineering, KEC, Tribhuvan University, 2005, Structure Major

Diploma of Civil Engineering, IOE, Tribhuvan University, 2000, Civil Engineering

EDUCATION / CERTIFICATIONS:

E.I.T, Drivers, Auto-CAD, Automated Geotechnical Testing Training, OSHA 40-Hour HAZWOPER

GENERAL QUALIFICATIONS:

Mr. Singh has 7+ years' experience as a civil engineer.

SUMMARY OF EXPERIENCE:

Geotechnical Design Engineer, CME Associates, Monmouth Junction, NJ (December 2016 – Present)

- Conduct subsurface explorations, prepare boring logs and subsurface profiles;
- Geotechnical analyses relative to soil/pile bearing capacity and their design;
- Settlement analyses of shallow and deep foundations;
- Preparation of AutoCAD drawings.

System Analyst, Saxon Global Inc., Irving, TX (August 2015 – May 2016)

- Collecting Data for in order to make maps
- Drawings maps of different terrains
- Analyzing the quality of maps

Graduate Research Assistant, Southern Illinois University Carbondale, IL (August 2012- December 2014)

- Instructor for CE 421 001 Foundation Design
- Researcher in "Resilient Modulus of Recycled Aggregates as Road Pavement Materials"

Consultant Engineer, CEDA Pvt. Ltd. & Creative Builders Group, Lalitpur, Nepal (April 2005 – July 2012)

- Structural Design of the Building structures, Raft, and Pile foundations
- Quantity Estimation of Building Materials and other materials and preparation of BOQ
- Site-Supervision for the building altogether including raft and pile foundations and Quality Controlling
- Architectural Design of Buildings using Auto-CAD as well as Structural drawing.
- Management of the work in site by preparing Materials, Work, and Labor Schedules
- Preparing and checking the report of work in progress, and billing

Civil Engineer, Bangalamukhi Construction Pvt. Ltd., Lalitpur, Nepal (November 2004-April 2005)

- Quantity Estimation of Building Materials and other materials and preparation of BOQ
- Site-Supervision for the building and foundations and Quality Control

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CHRISTIAN KUTER LEAD SCIENTIST



EDUCATION / CERTIFICATIONS:

Shippensburg University, College of Arts and Science,
B.S. in Geoenvironmental Science, 2014

OSHA 40-hour HAZWOPER (29 CFR 1910.120)
Training Certification

OSHA 8-hour HAZWOPER Refresher (completed
annually)

GENERAL QUALIFICATIONS:

Mr. Kuter has over eight (8) years of professional experience in the environmental consulting industry conducting investigations and remedial actions to reduce environmental liabilities in a cost effective, technically sound manner. Mr. Kuter has various experience in investigational and remedial design and reporting activities. His expertise includes preliminary assessments, phase I ESA's, site investigations, remedial investigations, remedial actions, regulatory knowledge, and field data collection and interpretation. Mr. Kuter has experience conducting soil, groundwater, surface water, sediment, and vapor intrusion investigations, receptor evaluations, and remedial projects at industrial, commercial, residential, agricultural, and open space properties contaminated by petroleum hydrocarbons, chlorinated solvents, heavy metals, pesticides, and PCBs.

Mr. Kuter is proficient at assessing risks, and performing soil, groundwater, air, and sediment sampling. His remedial expertise includes in situ chemical oxidation and reduction, and underground storage tank (UST) and soil excavation. Mr. Kuter has extensive experience in data management and Computer Aided Design software to assess site-specific and regional geologic, hydrogeologic, and environmental conditions. Mr. Kuter maintains a working understanding of current NJDEP regulations.

SUMMARY OF EXPERIENCE:

LSRP Program Experience

- Under supervision of Project Manager/Engineer, performed environmental and remedial investigations and remedial actions for industrial, commercial, agricultural, and open space properties throughout New Jersey, Pennsylvania, and New York. Prepared workplans, reports, drawings, and forms in support of issuance of restricted and unrestricted Response Action Outcomes (RAOs).

Brownfields Redevelopment/Site Remediation

- Under supervision of Project Manager/Engineer, conducted environmental investigations and remedial actions at contaminated commercial and industrial sites throughout New Jersey including UST excavations and sampling of soil, groundwater, air, and sediment.

Environmental Assessments and Investigations

- Conducted Preliminary Assessments, Phase I ESAs, Site and Remedial Investigations, UST Investigations, and Remediation for industrial, commercial, agricultural, residential properties throughout New Jersey and Pennsylvania.

Landfills

- Prepared both minor and major landfill disruption permits.

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Alan M. Buob

Lead Scientist



EDUCATION / CERTIFICATIONS:

Montclair State University, Center for Science and Mathematics, M.S. Marine Biology and Coastal Science, 2019

Montclair State University, Center for Science and Mathematics, B.S. Marine Biology and Coastal Science, 2017

Montclair State University, Center for Science and Mathematics, Graduate Certificate Water Resource Management, 2019

OSHA 40-Hour HAZWOPER (29 CFR 1910.120) Training Certificate

OSHA 8-hour Refresher (completed annually)

OSHA 10-hour Construction (29 CFR 1926) Training Certificate

OSHA 30-hour Construction Safety (29 CFR 1926) Training Certificate

with the client/PRP by scheduling weekly update calls, daily reports, and site walks with client representatives or court appointed administrators. He is experienced with communicating both to clients/PRP and the NJDEP to provide both parties with up to date and accurate information pertaining to ongoing cleanup activities.

Mr. Buob is proficient in generating work plans, THA/JSA, scheduling, planning and running field projects, as well as follow up reporting and analysis. Mr. Buob maintains a working understanding of NJDEP regulations.

SUMMARY OF EXPERIENCE:

Site Remediation

- Under supervision of Project Manager performed Construction management responsibilities relating to Construction oversight, health and safety, oversight of on-site sub-contractors, and daily updates with the NJDEP and client representatives.
- Under supervision of Project Manager, designed, scheduled, planned and executed field activities to in accordance of client and NJDEP requirements. Lead field mobilizations and oversaw personnel on 30 month long term field sampling project. During field activities Mr. Buob was responsible for interacting with any and all guest to site, client representatives, and communicating with the lab to schedule and ensure timely sample pick up. Mr. Buob gave daily updates to the Project Manager of the ongoing progress.

EPA Superfund

- Perform construction management duties on a Phase 3 superfund environmental capping project. Managed sub-contractors, reviewed sub-contractor work plans, time cards and daily tasks. Interacted daily with client representative to ensure they had the most up to date information regarding daily work activities.

GENERAL QUALIFICATIONS:

Mr. Buob is an environmental scientist with five (5) years' experience in the consulting industry conducting remedial activities in accordance with Local, State and Federal regulations in a cost efficient manner utilizing the latest technology to drive down cost to the client or PRP.

Mr. Buob specializes in excavation oversight, soil, and groundwater sampling, for environmental clean-up and remediation of project sites within the Tristate area. Mr. Buob's primary experience deals with soil and groundwater investigation and cleanup of Hexavalent Chromium Contamination in Northern New Jersey in accordance with a Court mandated clean up order. Mr. Buob oversaw the removal of over 500,000 tons of Hexavalent Chromium Contaminated soil over an eighteen (18) month excavation in accordance with the proposed excavation plan and NJDEP standards. He is adept at performing duties pertaining to construction management, such as interaction on a constant basis

Philip N. Catanzaro

Geologist



EDUCATION / CERTIFICATIONS:

Rutgers University-New Brunswick, School of Arts and Science, B.S. in Geological Sciences, 2020

University of Oregon, College of Arts and Sciences, Field Camp Program Completion, 2019

OSHA 40-hour HAZWOPER (29 CFR 1910.120) Training Certification

OSHA 8-hour HAZWOPER Refresher (completed annually)

GENERAL QUALIFICATIONS:

Mr. Catanzaro is a Geologist with four (4) years of professional experience in the environmental consulting industry conducting investigations and remedial actions in accordance with Local, State, and Federal regulations to reduce environmental liabilities in a cost effective, technically sound manner. Mr. Catanzaro has experience in both the private and public sectors with his work for municipal and private industry clients.

Mr. Catanzaro's primary experience includes leading and conducting field activities related to site investigation, remedial investigation, and remedial action workplans. These field activities include soil and groundwater investigations, excavation and construction oversight, perimeter air monitoring and sampling, and perimeter methane monitoring. Mr. Catanzaro also has experience in oversight of Linear Construction projects and ensuring all protocols are followed in accordance with the Material Management Plan and Linear Construction compliance.

Mr. Catanzaro has experience gathering data collected in the field in tabular format on various platforms, analysis of data to determine trends and next steps for remediation, and preparation of reports for clients and NJDEP.

Mr. Catanzaro is proficient in generating work plans, scheduling, planning and running field projects in an expedient and efficient manner. Mr. Catanzaro

maintains a working understanding of NJDEP regulations.

SUMMARY OF EXPERIENCE:

LSRP Program Experience

- Under supervision of Project Manager performed Construction management responsibilities relating to Construction oversight, health and safety, oversight of on-site sub-contractors, and daily updates with the NJDEP and client representatives.
- Under supervision of project Manager, designed, scheduled, planned and executed field activities to in accordance of client and NJDEP requirements. Lead field mobilizations and oversaw personnel on various kinds of projects, such as in-situ chemical oxidation events and linear construction projects. During field activities Mr. Catanzaro was responsible for interacting with any and all guest to site, client representatives, and communicating with the lab to schedule and ensure timely sample pick up. Mr. Catanzaro gave daily updates to the Project manager of the ongoing progress.

Landfills

- Performed quarterly inspections, investigation, and reporting of closed municipal landfills in accordance with NJDEP regulations and local municipal ordinances. This includes surface and perimeter methane investigation, landfill vent sampling, and groundwater sampling investigations.
- Drafted Quarterly inspection reports to be submitted to both the municipal client and NJDEP.

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RICHARD JAMES KEMBLE GEOLOGIST



EDUCATION / CERTIFICATION

Stockton University

B.S. Geology 2022

OSHA 40-hour HAZWOPER (29 CFR 1910.120)

Training Certification – Jan 2023

OSHA 8-hour HAZWOPER Refresher (completed annually)

Understanding 2022 Changes to the FSPM – Apr 2023

GENERAL DESCRIPTION OF EXPERIENCE

Mr. Kemble is an entry level Geologist who has 4 years of geologic experience with field work and research projects, including 2 years in the environmental consulting industry.

RichardJames's research experience includes geologic mapping, X-Ray Diffraction and X-Ray Fluorescence analysis, knowledge with Petrographic Microscopes, GIS, and Brunton Field Work.

During his time with CME Associates, his responsibilities include: soil and groundwater sampling, component preparation of Preliminary Assessments (PA), Site Investigations (SI), Remedial Investigations (RI), Remedial Action (RA) Work Plans and Reports, scheduling of company resources, subconsultants, subcontractors, and outside resources, RI/RA implementation and monitoring, oversight of environmental and construction activities, and processing and interpreting data sets to the QA/QC stages.

KEY PROJECTS:

Aberdeen SRMP

- Create groundwater and soil sampling plans to further develop remedial phase progress
- Oversee well installations and create soil boring logs
- Conduct groundwater monitoring and sampling on a quarterly basis, adhering to NJDEP QA guidelines
- Update data tables, figures, and appendices for various reports

Tamarack Golf Course

- Oversee In-Situ ISCO injection treatment and adjusting plan according to geologic and soil conditions
- Conduct groundwater monitoring and sampling on a quarterly basis, adhering to NJDEP QA guidelines
- Update ongoing analytical data tables

Roosevelt Care Center

- Oversee In-Situ ISCO injection treatment and adjusting plan according to geologic and soil conditions
- Conduct groundwater monitoring and sampling on a quarterly basis, adhering to NJDEP QA guidelines
- Oversee well installations and create soil boring logs

Hazlet Police Department

- Produce groundwater and soil sampling plans to further develop remedial phase progress
- Supervise well installations and create soil boring logs
- Conduct groundwater monitoring and sampling on a quarterly basis, adhering to NJDEP QA guidelines

Lenape Park Wetlands Redevelopment

- Monthly water level monitoring to understand seasonal variations in the water table
- Oversee test pits and create logs highlighting seasonal high water tables based off redoximorphic features

EXPERIENCE:

Jan 2023 to Present

CME Associates
Staff Geologist

June 2021 to Aug 2021

Property Solutions
Research Associate
Summer Intern

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BIANCA MASTELLONE

ENGINEERING TECHNICIAN



EDUCATION / CERTIFICATIONS:

Rutgers University – School of Engineering, School of Environmental and Biological Sciences
B.E., Environmental Engineering; 2023
Certificate, Environmental Unit Processes and Remediation; 2023
Certificate, Environmental Policy, Institutions, and Behavior; 2023

OSHA 40-hour HAZWOPER (29 CFR 1910.120) Training Certification
OSHA 8-hour HAZWOPER Refresher (completed annually)

GENERAL QUALIFICATIONS:

Ms. Mastellone has been working at CME Associates as an Engineering Technician since October 2023 and has worked as an intern during summer 2022 and summer 2023. Her experience includes site remediation and reporting work in compliance with NJDEP regulations, including Preliminary Assessments, Phase I ESAs, and Site and Remedial Investigations for government, commercial, agricultural, and residential properties throughout New Jersey. Additionally, her experience includes working with public agencies throughout the planning and design, bidding, and construction phases of projects related to solid waste facilities, including design work in compliance with NJDEP Best Management Practices Manual and SESC Standards. Ms. Mastellone has experience working with AutoCAD Civil 3D.

SUMMARY OF EXPERIENCE:

Site Remediation – Municipal/County Clients

- Prepared municipal and county environmental site assessments, including Phase I ESAs, and Preliminary Assessments to support grant funding for improvements, acquisition of properties for open space, and to advance investigation/remediation of the subject property.
- Performed site visits, assessed potential environmental concerns, prepared and conducted OPRA requests and record reviews, and prepared final reports for sites, including sites requiring environmental assessments as part of due diligence requirements.
- Conducted biennial certification site inspections for soil and groundwater to evaluate the protectiveness of remedies.
- Prepared numerous NJDEP forms and notifications including Receptor Evaluations, Potable Well Surveys, Deed Notices, and Termination of Deed Notices.

Landfill Engineering Experience

- Provided engineering services during landfill cell construction and landfill improvement projects including review of contractor submittals, contractor RFIs, and construction quality assurance. Performed on-site construction inspection and contract administration.
- Assisted in preparation of Solid Waste Facility Permit Renewal applications, including minor and/or major modifications, preparation of design drawings and details, preparation of bid documents and technical specifications, and construction administration.

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EMIR BASDEMIR DESIGN ENGINEER

EDUCATION / CERTIFICATIONS:

University at Buffalo, School of Engineering and Applied Science, B.S. in Civil Engineering, 2023

COURSES / TRAINING:

OSHA 40-hour HAZWOPER (29 CFR 1910.120)
OSHA 8-hour HAZWOPER Refresher (Annually)

GENERAL QUALIFICATIONS:

Mr. Basdemir has been working at CME Associates as a Design Engineer since July 2023. He has gained knowledge of landfill construction oversight and design including new landfill cell construction, final closures, capping, and stormwater systems all the while continuing to adhere to the SESC Standards, the Best Management Practices Manual, and the NJDEP Solid Waste Regulations. He provided construction oversight services and monitored construction operations in landfills to make sure that contractors follow approved plans and project schedule.

Working with governmental agencies during the design, bidding, and building stages of projects pertaining to solid waste facilities is the focus of Mr. Basdemir's experience. He works in Auto CAD Civil 3D.

SUMMARY OF EXPERIENCE:

CME Title/Position:

Design Engineer (July 2023 to Present)

Landfill Engineering Experience

- Provided oversight during landfill cell construction, landfill improvement, side slope closure construction and contact stormwater and pond improvements
- Assisted the project team in gathering and preparing data for submittals to local and state agencies and clients.
- Provided project change orders and as-built drawings.
- Developed landfill closure plans for solid waste facilities in New Jersey.
- Provided landfill permit application for closed landfill.

KEY PROJECTS

Construction Administration, Project Engineering and Field Inspection Services for the Following Projects:

Middlesex County Construction of Temporary Southwest Side Slope Closure, Middlesex County, NJ – October 2023

- Installation of temporary rain cover system and appurtenances over approximately 10.15 acres.
- Temporary rain cover includes the installation of a 30 mil LLDPE liner and windscreen ballast anchoring system and the installation of various contact and non-contact water collection.
- Gravel-filled interception trench, drain tubes and associated piping.

Middlesex County Contact Stormwater Pond Improvements, Middlesex County, NJ – July 2023

- Improvements to the MCUA Landfill's existing Contact Stormwater Ponds 1 & 4 involving the demolition of existing facilities and installation of new submersible pumps, pump guide rail system, concrete pads, Pvc pressure piping, fittings and valves, pipe supports, pump screen, radar and float system, pump control panels, electrical conduits and wiring.
- Construction of two (2) contact stormwater swales with associated piping and accessories, as well as the restoration of Ponds.

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HALEY WILMOT ENVIRONMENTAL SCIENTIST

EDUCATION / CERTIFICATIONS:

Stockton University
B.S., Environmental Science; 2021

- Prepared soil logs for wetland and upland sampling sites.

COURSES / TRAINING:

OSHA 40-hour HAZWOPER (29 CFR 1910.120)
Training Certification
Rutgers Wetland Delineation Certification (2024)

GENERAL QUALIFICATIONS:

Ms. Wilmot has been working at CME Associates as an Environmental Scientist since March 2024. Her experience includes permitting work in compliance with NJDEP regulations, including Freshwater Wetlands, Flood Hazard Areas, CAFRA, and Waterfront Development. She has experience compiling permitting applications, writing Environmental Reports, and assisting with wetland delineations for clients throughout New Jersey.

SUMMARY OF EXPERIENCE:

Permitting – Municipal/County Clients

- Prepared municipal and county environmental permitting applications, including Freshwater Wetlands and Flood Hazard Areas.
- Prepared required NJDEP forms and documents including Public Notification, Natural Heritage Database Requests, Environmental Reports, site maps, photo logs and location maps.
- Performed permit plan markups to ensure compliance with NJDEP regulations.
- Prepared project site summaries and permitting scopes to evaluate permitting requirements.
- Conducted environmental reviews to verify clients have obtained all applicable NJDEP permits.
- Compiled Environmental Justice Impact Statements for county landfill sites to assess potential adverse environmental and public health stressors on overburdened communities.

Wetland Delineations

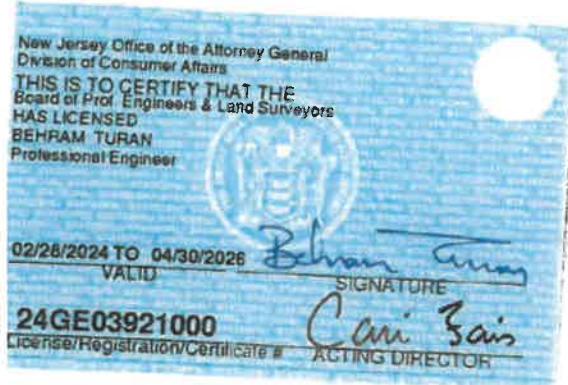
- Conducted site pre-assessments for indications of the presence of freshwater wetlands.
- Assessed site hydrology and vegetation for use in making wetland determinations.
- Performed soil sampling for the evaluation of hydric soil indicators.

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Copies of Licenses and Certifications



**BEHRAM TURAN, P.E., LSRP
SENIOR VICE PRESIDENT**



Hereby Certifies:

BEHRAM TURAN

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 591482

Expires: 12/20/2024





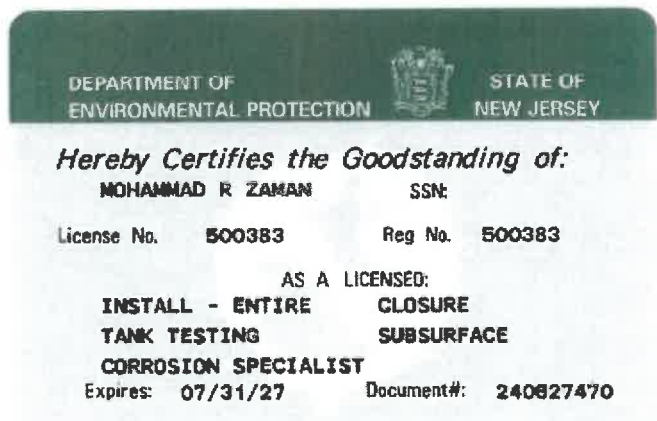
**MOHAMMAD ZAMAN, PH.D., P.E., LSRP, BCEE
DIRECTOR OF ENVIRONMENTAL SERVICES**



Hereby Certifies:

MOHAMMAD R ZAMAN

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.
License #: 575492 Expires: 07/09/2027





**SURESH PUPPALA, PH.D., P.E., LSRP
PROGRAM MANAGER**



Hereby Certifies:

SURESH PUPPALA

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 590707

Expires: 12/20/2024

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**State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs**



THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

**SURESH PUPPALA
114 Adelphia Drive
Chesterfield NJ 08515**

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

02/28/2024 TO 04/30/2026
VALID

24GE04315300
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR



**JAMES SOUSA, PH.D., LSRP
PROGRAM MANAGER**



**SITE REMEDIATION PROFESSIONAL
LICENSING BOARD
STATE OF NEW JERSEY**

Hereby Certifies:

JAMES SOUSA

as a **LICENSED SITE REMEDIATION PROFESSIONAL**
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 586573

Expires: 11/27/2024

DEPARTMENT OF
ENVIRONMENTAL PROTECTION



STATE OF
NEW JERSEY

Hereby Certifies the Goodstanding of:

JAMES SOUSA

SSN:

License No. 216355

Reg No. 216355

AS A LICENSED:

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Expires: 02/28/25

Document#: 220015820



ZAHID SIDDIQUI, P.E.
PROGRAM MANAGER

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THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

Zahid M. Siddiqui
6 Excalibur Court
Old Bridge NJ 08857

FOR PRACTICE IN NEW JERSEY AS A(N): **Professional Engineer**

03/08/2024 TO 04/30/2026
 VALID

24GE04480100
 LICENSE/REGISTRATION/CERTIFICATION #

Cari Zais
 ACTING DIRECTOR

Signature of Licensee/Registrant/Certificate Holder

New Jersey Office of the Attorney General
 Division of Consumer Affairs
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 Board of Prof. Engineers & Land Surveyors
 HAS LICENSED
 Zahid M. Siddiqui
 Professional Engineer

03/08/2024 TO 04/30/2026
 VALID

24GE04480100
 Licensee/Registrant/Certificate #

SIGNATURE
Cari Zais
 ACTING DIRECTOR

PLEASE DETACH HERE
 IF YOUR LICENSE/REGISTRATION/
 CERTIFICATE ID CARD IS LOST
 PLEASE NOTIFY:
 Board of Prof. Engineers & Land Sur
 P.O. Box 45015
 Newark, NJ 07101

PLEASE DETACH HERE

**ASSOCIATION OF STATE
 FLOODPLAIN MANAGERS, INC.**

CERTIFICATION BOARD OF REGENTS

HEREBY CERTIFIES THAT PURSUANT TO THE PROVISIONS OF THE CHARTER FOR THE
 CERTIFIED FLOODPLAIN MANAGER PROGRAM:

Zahid M. Siddiqui, CFM

IS DULY REGISTERED AS AN

ASFPM CERTIFIED FLOODPLAIN MANAGER

IN TESTIMONY WHEREOF THIS CERTIFICATE HAS BEEN ISSUED BY THE AUTHORITY OF THE
 CERTIFICATION BOARD OF REGENTS, CERTIFICATE NO. US-00-04874. ISSUED 10/16/2009. THIS
 CERTIFICATE SHALL EXPIRE 1/31/2022, UNLESS RENEWED ACCORDING TO THE RULES OF THIS BOARD.

Louis T. Greenwell
 CERTIFICATION BOARD OF REGENTS
 PRESIDENT, LOUIS T. GREENWELL, CFM

Chad M. Berginnis
 ASSOCIATION OF STATE FLOODPLAIN MANAGERS
 EXECUTIVE DIRECTOR, CHAD M. BERGINNIS, CFM

ASFPM
 CFM
 CERTIFIED



JOSEPH SULLIVAN, P.E.
PRINCIPAL ENGINEER

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New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

JOSEPH V. SULLIVAN III
73 Breton Road
Brick NJ 08723

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

04/15/2024 TO 04/30/2026

VALID

A handwritten signature in blue ink that reads 'Joseph V. Sullivan III'. The signature is written in a cursive style and is positioned above a horizontal line.

Signature of Licensee/Registrant/Certificate Holder

24GE03939900

LICENSE/REGISTRATION/CERTIFICATION #

A handwritten signature in blue ink that reads 'Cari Zois'. The signature is written in a cursive style and is positioned above a horizontal line.

ACTING DIRECTOR



**MIKE MCGURL, P.L.S.
MANAGER OF FIELD SURVEYS**

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**State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs**

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

**MICHAEL J. MC GURL
19 Grange Avenue
Fair Haven NJ 07704**

FOR PRACTICE IN NEW JERSEY AS A(N): **Professional Land Surveyor**

03/09/2024 TO 04/30/2026
VALID

Signature of Licensee/Registrant/Certificate Holder

24GS03833800
LICENSE/REGISTRATION/CERTIFICATION #

Cari Zois
ACTING DIRECTOR



**NELSON HERNANDEZ, P.E.,
STRUCTURAL ENGINEERING DEPT. MANAGER**

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New Jersey Office of the Attorney General
Division of Consumer Affairs**

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

**Nelson Hernandez
12 Karen Court
Old Bridge NJ 08857**

FOR PRACTICE IN NEW JERSEY AS A(N): **Professional Engineer**

03/05/2024 TO 04/30/2026
VALID

24GE04960500
LICENSE/REGISTRATION/CERTIFICATION #


Signature of Licensee/Registrant/Certificate Holder


ACTING DIRECTOR



**SALIH KOKOL, CSE, LICENSED N2 OPERATOR
SENIOR SCIENTIST**



Hereby Certifies the Goodstanding of:

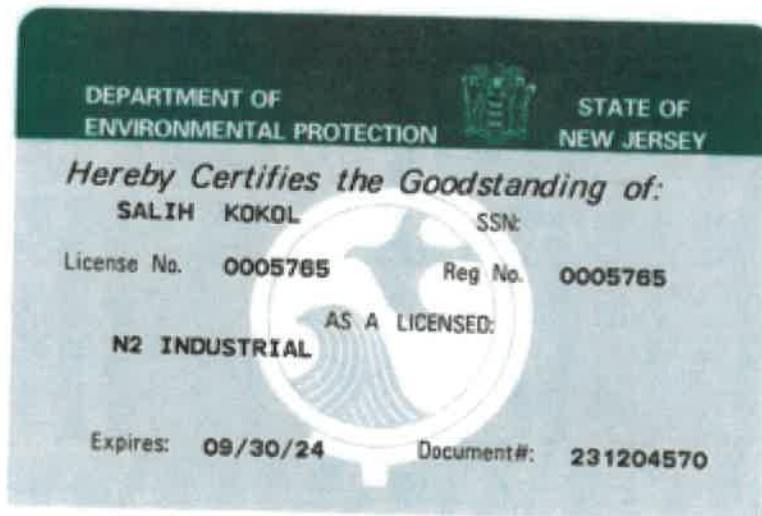
SALIH KOKOL SSN:

License No. **0011795** Reg No. **0011795**

AS A LICENSED:

SUBSURFACE

Expires: **06/30/25** Document#: **220784830**





DREW LEWIS, PE, PP
SENIOR PROFESSIONAL ENGINEER, ENVIRONMENTAL

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State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

Drew G. Lewis
3759 US 1 South
Suite 100
Monmouth Junction NJ 08852

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

05/01/2024 TO 04/30/2026
VALID

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LICENSE/REGISTRATION/CERTIFICATION #

Drew G. Lewis
Signature of Licensee/Registrant/Certificate Holder

Cari Bain
ACTING DIRECTOR

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New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Professional Planners

HAS LICENSED

Drew G. Lewis
3759 US 1 South
Suite 100
Monmouth Junction NJ 08852

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Planner

05/01/2024 TO 05/31/2026
VALID

33LI00649600
LICENSE/REGISTRATION/CERTIFICATION #

Drew G. Lewis
Signature of Licensee/Registrant/Certificate Holder

Cari Bain
ACTING DIRECTOR



JACQUELYN FAGAN, CRP
SENIOR SCIENTIST

**NJ Certified Recycling Professional
Sustainable Resource Management Professional**

This card certifies that Jacquelyn Fagan has successfully completed the requirements to become a Certified Recycling Professional (CRP) and a Sustainable Resource Management Professional (SRMP). CRP/SRMP's are required to complete 20 hours of continuing professional education every two years to maintain their certification.

Expires December 31, 2024



RUTGERS

The New Jersey Agricultural Experiment Station
Office of Continuing Professional Education

Presents this certificate to

Jacquelyn Fagan

For successfully completing the requirements of

The New Jersey Recycling Certification Series

September 16, 2020 - May 13, 2021

Laura J. Lawson
Interim Executive Dean of Agriculture & Natural Resources

Mark Gregory Robson
Faculty Director
Office of Continuing Professional Education



RAND PIANIN, P.E.
ASSOCIATE PROFESSIONAL ENGINEER, ENVIRONMENTAL

THIS DOCUMENT IS PRINTED ON WATERMARKED PAPER WITH A MULTI-COLORED BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VERIFY AUTHENTICITY.

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

Rand P. Pianin
3759 Us Highway 1 S
Ste 100
Monmouth Junction NJ 08852

FOR PRACTICE IN NEW JERSEY AS A(N): **Professional Engineer**

06/10/2024 TO 04/30/2026
VALID

Rand Pianin
Signature of Licensee/Registrant/Certificate Holder

24GE06094700
LICENSE/REGISTRATION CERTIFICATION #

Cari Zais
ACTING DIRECTOR

New Jersey Office of the Attorney General
Division of Consumer Affairs
THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors
HAS LICENSED
Rand P. Pianin
Professional Engineer

06/10/2024 TO 04/30/2026
VALID

Rand P. Pianin
SIGNATURE

Cari Zais
ACTING DIRECTOR

24GE06094700
License/Registration Certificate #

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:
Board of Prof. Engineers & Land Sur
P.O. Box 45015
Newark, NJ 07101

PLEASE DETACH HERE

Section 6. Cost Proposal





AUTHORITY CONSULTING ENGINEERING SERVICES
GENERAL CONDITIONS AND HOURLY RATE SCHEDULE TO JANUARY 1, 2026

Program Manager.....	\$227.00 Per Hour
Project Manager	\$226.00 Per Hour
Senior Professional Engineer/Project Leader.....	\$225.00 Per Hour
Professional Engineer, Environmental	\$224.00 Per Hour
Assoc. Professional Engineer, Environmental.....	\$223.00 Per Hour
Professional Engineer	\$209.00 Per Hour
Project Engineer, Environmental	\$220.00 Per Hour
Associate Professional Engineer.....	\$223.00 Per Hour
Project Engineer/Senior Designer II	\$220.00 Per Hour
Engineer/Senior Designer	\$216.00 Per Hour
Associate Engineer/Designer	\$208.00 Per Hour
Engineer, Environmental	\$216.00 Per Hour
Associate Engineer, Environmental.....	\$208.00 Per Hour
Senior Scientist.....	\$231.00 Per Hour
Lead Scientist/Senior Geologist	\$217.00 Per Hour
Scientist/Project Geologist.....	\$209.00 Per Hour
Associate Scientist/Staff Geologist.....	\$179.00 Per Hour
Environmental Technician	\$157.00 Per Hour
Professional Surveyor	\$216.00 Per Hour
Survey Manager	\$195.00 Per Hour
Party Chief.....	\$177.00 Per Hour
Robotic Total Station	\$ 84.00 Per Hour
Survey Technician	\$159.00 Per Hour
Chief Construction Manager.....	\$230.00 Per Hour
Construction Manager	\$204.00 Per Hour
Senior Construction Technician.....	\$200.00 Per Hour
Construction Technician.....	\$173.00 Per Hour
Associate Construction Technician	\$143.00 Per Hour
Support Staff.....	\$130.00 Per Hour
Drone Pilot.....	\$159.00 Per Hour
Drone Technician	\$ 86.00 Per Hour
CAD Technician.....	\$197.00 Per Hour
Senior Landscape Architect.....	\$189.00 Per Hour
Landscape Architect	\$179.00 Per Hour
Certified Tree Expert	\$161.00 Per Hour
Associate Landscape Designer	\$150.00 Per Hour
Principal Planner	\$225.00 Per Hour
Professional Planner	\$212.00 Per Hour
Senior Planner.....	\$193.00 Per Hour
Planner	\$189.00 Per Hour
Senior Leadership	\$232.00 Per Hour
Executive Leadership	\$251.00 Per Hour
Executive Leadership, Environmental	\$232.00 Per Hour
Managing Partner	\$258.00 Per Hour





Invoices - CME Associates (CME) will submit invoices to Client monthly and a final invoice upon completion of services. Payment is due upon presentation of invoice and is past due thirty days from invoice date. Client agrees to pay a finance charge of one and one-half percent per month, or the maximum rate allowed by law, on past due accounts. In the event that the invoice is not paid voluntarily and promptly, and must therefore be referred to an attorney or agency for collection, the Client agrees to pay a collection fee equal to the actual attorney or agency collection fee incurred by CME. Overtime rates are applicable after eight hours Monday through Friday, and all day

Saturday and Sunday, and charged at one and one-half times the quoted rate. Holidays are charged at two times the quoted rate. Expenses incurred for reproduction, postage handling, photographs and for services including subconsultants equipment and facilities not furnished by CME are charged to the Client at cost plus fifteen percent. Automobile travel may be charged at the current rate per mile allowed by the Internal Revenue Service.

Standard of Care - Services performed by CME under this Agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. NO OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

Contaminated Material - It is understood that CME is not, and has no responsibility as a handler, generator, operator, treater or storer, transporter or disposer of hazardous or toxic substances found or identified at any site. Client shall undertake or arrange for, either directly or indirectly through other contractors, the handling, removal, treatment, storage, transportation and disposal of hazardous substances or constituents found or identified at any site.

Utilities - In the execution of the work, CME will take all reasonable precautions to avoid damage or injury to subterranean structures or utilities. The Client agrees to hold CME harmless for any damages to subterranean structures which are not called to CME's attention and/or not correctly shown on the plans furnished.

Right of Entry/Worksite - Client will provide for right of entry for CME personnel and equipment necessary to complete the work. While CME will take all reasonable precautions to minimize any damage to the property it is understood by Client that in the normal course of some damage may occur, the correction of which is not part of this agreement.

Client shall furnish or cause to be furnished to CME all documents and information known to Client that relate to the identity, location, quantity, nature or characteristics of any hazardous or toxic substances at, on or under the site. In addition, Client will furnish or cause to be furnished such other information on surface and subsurface site conditions required by CME for proper performance of its services. CME shall be entitled to rely on Client provided documents and information in performing the services required under this Agreement; however, CME assumes no responsibility or liability for their accuracy or completeness.

CME will not direct, supervise or control the work of contractors or their subcontractors. CME services will not include a review or evaluation of the contractor's (or subcontractor's) safety measures.

CME shall be responsible only for its activities and that of its employees on any site. Neither the professional activities nor the presence of CME or its employees or subcontractors on a site shall imply that CME controls the operations of others, nor shall this be construed to be an acceptance by CME of any responsibility for jobsite safety.

Indemnification - To the full extent permitted by law, Client shall indemnify, defend and hold harmless CME and its subcontractors, consultants, agents, officers, directors and employees (herein collectively referred to as Engineer) from and against all claims, damages, losses and expenses, whether direct, indirect or consequential, including but not limited to fees and charges of attorneys and court and arbitration costs, arising out of or resulting from the services of work of Engineer or any claims against Engineer arising from the acts, omissions of work of others, unless it is proven in a court of competent jurisdiction that the Engineer is guilty of negligence or willful misconduct in connection with the services and such negligence or willful misconduct was the sole cause of the damages, claims and liabilities.

Client agrees to indemnify and hold harmless Engineer from and against all claims, damages, losses and expenses, direct or indirect, and consequential damages, including but not limited to fees and charges of attorneys and court and arbitration costs, brought by any person or entity, or claims against Engineer which arise out of, are related to, or are based upon, the actual or threatened dispersal, discharge, escape, release or saturation or smoke, vapors, soot, fumes, acids, alkalis, toxic chemical, radioactive materials, liquids, gases or any other material, upon, in or into the surface or subsurface soil; water or watercourse; objects; or any tangible or intangible matter.

To the fullest extent permitted by law, such indemnification shall apply regardless of the fault, negligence, breach of warranty or contract or strict liability of Engineer. This indemnification shall not apply to claims, damages, losses or expenses which are determined by a court of competent jurisdiction to be the sole result of negligence or willful misconduct by the Engineer of obligations under this Agreement.

Limitations of Liability - CME's total liability to Client for any and all injuries, claims, losses, expenses or damages whatsoever arising out of, or in any way related to, this Agreement from any cause or causes, including but not limited to CME's negligence, errors, omissions, strict liability, breach of contract or breach of warranty, shall not exceed the total contract amount for the services provided by CME or \$50,000, whichever is less.

In no event shall CME be liable for consequential damages, including, without limitation, loss of use or loss of profits, incurred by Client or their subsidiaries or successors, regardless of whether such claim is based upon alleged breach of contract, willful misconduct, or negligent act or omission.

Professional services rendered for a Client shall be provided for that Client. The Client is responsible for the proper operation and use of the subject facilities and/or report and nothing herein shall provide any rights to any third party. The Client, in authorizing CME to proceed, acknowledges that the professional responsibility is limited.

Termination - This Agreement may be terminated by either party upon fourteen (14) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof. Such termination shall not be effective if that substantial failure has been remedied before expiration of the period specified in the written notice. In the event of termination, CME shall be paid for services performed to the termination notice date plus reasonable termination expenses.

In the event of termination, or suspension for more than three (3) months, prior to completion of all work contemplated by this Agreement, CME may complete such analyses and records as are necessary to complete its files and may also complete a report on the services performed to the date of notice of termination or suspension. The expenses of termination or suspension shall include all direct costs of CME in completing such analyses, records and reports.

Assigns - The Client may not delegate, assign, sublet or transfer his duties or interests in this Agreement without the written consent of CME.

This agreement shall not create any rights or benefits to parties other than the Client and CME, except such other rights as may be specifically called for herein.

